SOIL SURVEY

MICCOSUKEE INDIAN ALLIGATOR ALLEY RESERVATION

BROWARD COUNTY, FLORIDA

MICCOSUKEE INDIAN-ALLIGATOR ALLEY
SOIL SURVEY REPORT

TABLE OF CONTENTS

HOW THIS SURVEY WAS MADE

This survey was made to provide information about the soils in the survey area. The information includes a description of the soils and their location and a discussion of the suitability, limitations, and management of the soils for specified uses. Soil scientists observed the general pattern of drainage; the kinds of crops and native plants growing on the soils; and the kinds of bedrock. They dug many holes to study the soil profile, which is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material from which the soil formed.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, acidity, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). The classes are used as a basis for comparison to classify soils systematically. After the soil scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

While a soil survey is in progress, samples of some of the soils in the area are generally collected for laboratory analyses and for engineering tests. Soil scientists interpreted the data from these analyses and tests as well as the field-observed characteristics and the soil properties in terms of expected behavior of the soils under different uses. Data were assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management were assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictible over long periods of time, but they are not predictable from year to year. For example, soil scientists can state with a fairly high degree of probability that a given soil will have a high water table within certain depths in most years, but they cannot assure that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, ditches and canals, all of which help in locating boundaries accurately. The soil map at the back of this report was prepared from the aerial photographs.

HOW TO USE THIS SOIL SURVEY REPORT

This soils report contains information that can be applied in managing the land for agricultural uses; in selecting sites for roads, ponds, buildings and other structures; and in judging the suitability of tracts of land for industry and recreation.

Soil areas are outlined and identified by symbols on the soil map. All areas marked with the same symbol are the same kind of soil. List the map unit symbols that are in your area and use the Mapping Legend to find the name for each soil symbol you listed. The legend is an alphabetical listing of all soil symbols and mapping unit names. Descriptions for each of the soils are presented alphabetically in the narrative section of this report and Soil Interpretation Sheets for each soil are included following the text and tables.

The Interpretation Sheets are the key source of information in the report. Each of the interpretation sheets gives a brief description of the soil. This is followed by a section on the estimated physical and chemical properties of the soil. The soils are rated as to their suitability as resource material, as to their degree of limitations for several selected uses, such as dwellings, septic tank filter fields, etc., and for recreation. The major features affecting the soil for these uses are also shown. Other information and interpretations given are the capability, soil loss factors, and potential yields for the soil, wildlife suitability, woodland suitability and range.

Individual maps showing the relative limitations of soils for various uses can be developed by using the soil map and the interpretations. Ratings can be shown visually by coloring soil maps or transparent overlays according to the traffic-light color conotations to point up the limitations for a particular use. A map or overlay can be made in this manner for septic tank filter fields, dwellings, or for any of the uses for which the soils are rated. For example, soil areas that have a slight limitation for a given use can be colored green, those with a moderate limitation can be colored yellow, those with a severe limitation can be colored red. Once the interpretive map is complete, the patterns of the soil limitations are readily apparent. The user can quickly select areas that have potential for a particular type of development and at the same time identify the areas of severe limitations. Though this method provides a rapid appraisal of the soils, it does not eliminate the need for on-site investigation of specific sites for the design and construction of engineering works and other uses.

Bc - BOCA FINE SAND

This is a nearly level, poorly drained, sandy soil with a loamy subsoil over limestone at a depth of 24 to 40 inches. It is in low, wet areas between depressions and slightly elevated, broad prairies. Slopes are smooth to concave and range from 0 to 2 percent.

Typically the surface layer is black fine sand about 4 inches thick. The subsurface layer is light brownish gray fine sand about 28 inches thick. The subsoil is grayish brown sandy clay loam about 6 inches thick. Limestone with numerous solution holes filled with sandy clay loam is at a depth of 38 inches.

Under natural conditions the water table is within a depth of 10 inches for about 4 months, and between 10 and 30 inches for 6 months or more. During periods of high rainfall, most areas are covered by shallow water for periods of 1 to 2 months. The existing drainage in the area lacks the capacity to remove excess water rapidly enough to prevent this.

Permeability is rapid in the sandy surface layers and moderate in the loamy subsoil. The available water capacity is low in the surface layer, very low between depths of 4 and 32 inches, and medium in the loamy subsoil. Natural fertility and organic matter content are low.

Included with this soil in mapping are small areas of Hallandale, Jupiter and Margate. Also included are similar soils with thicker, dark-colored surface layers, and soils with the limestone at depths of more than 40 inches. Included soils make up about 25 percent of any mapped area.

All areas of this soil are used for improved pasture, but because of the lack of complete water control, a variety of native grasses and sedges are part of the total available forage. With adequate water control and good management, both truck crops and improved pastures can be grown satisfactorily. With intensive management and adequate water control, citrus can also be grown on this soil.

This soil is in capablity subclass IIIw.

Ch - CHOBEE MUCK, LIMESTONE SUBSTRATUM, DEPRESSIONAL

This is a nearly level, very poorly drained soil with a thin muck surface over loamy materials resting on limestone at depths of more than 40 inches. It occurs in depressions and drainageways throughout the area and makes up about 10 percent of the total area mapped. Slopes range from 0 to 1 percent.

Typically the surface layer is black muck about 6 inches thick. Below this, the mineral surface is black sandy clay loam about 20 inches thick. The subsoil is gray sandy clay loam about 16 inches thick. Limestone underlies the soil at a depth of about 42 inches.

Under natural conditions this soil is covered by about 1 foot of water for 6 months or more in most years. The water table is within 10 inches of the surface most of the rest of each year except during droughts. Existing drainage in the area has only slightly reduced the period of standing water.

Permeability is rapid in the organic surface layer but is slow in the underlying loamy mineral layers. The available water capacity is high in the muck surface and medium high in the underlying mineral layers. Organic matter content and natural fertility are high.

Included with this soil in mapping are small areas of Gator and Copeland soils. Lauderhill soils occur in the centers of a few of the largest depressions. Also included are spots of soils similar to Chobee that have limestone at depths of less than 40 inches. Total inclusions make up about 20 percent of any mapped area.

All areas of this soil remain in native vegetation consisting of sawgrass, fireflag, pickerelweed, arrowhead, sedges and willow. Cypress trees are dominant in the southwestern part of the area. This soil occupies the lowest positions in the area and lacks drainage outlets. Therefore, its use for cultivated crops or pasture is not feasible. It is best used in its natural condition for water storage and for wetland wildlife.

This soil is in capability subclass VIIw.

Co - COPELAND MUCKY FINE SAND, DEPRESSIONAL

This is a nearly level, very poorly drained, sandy soil with a loamy subsoil over limestone at a depth of 20 to 40 inches. It is in shallow depressions and on the edges of deeper depressions. Slopes are nearly level to concave and are less than 2 percent.

Typically the surface layer is black, mucky fine sand about 10 inches thick. The subsurface layer is grayish brown fine sand about 8 inches thick. The subsoil is grayish brown sandy clay loam about 6 inches thick. Limestone with few to many solution holes is at a depth of 24 inches. Solution holes are filled with loamy materials or marl.

Under natural conditions areas of this soil are covered by shallow water for 6 months or more in most years. Existing drainage in the area has only slightly reduced this period of excessive wetness.

Permeability is rapid in the surface and subsurface layers and is slow in the subsoil. Available water capacity is high in the surface and subsoil layers and low in the subsurface layer. Natural fertility is medium to high and organic matter content is high.

Included with this soil in mapping are small areas of Jupiter and Chobee soils, and soils similar to Copeland that have a surface layer of muck up to 10 inches thick. Total inclusions make up to 25 percent of any mapped area.

All areas of this soil remain in native vegetation that is dominantly pickerelweed and sawgrass, interspersed with various sedges. These areas are only occasionally grazed by cattle during dryer seasons. This soil is suited for a wide variety of truck crops and citrus if water control could be established, but it occurs at low elevations and drainage outlets are not available. Therefore its use for cultivated crops would generally not be feasible.

This soil is in capability subclass VIIw.

Ga - GATOR MUCK, LIMESTONE SUBSTRATUM, DEPRESSIONAL

This is a nearly level, very poorly drained organic soil over loamy mineral material resting on limestone at depths of more than 40 inches. It occurs in the centers of a few of the larger or deeper depressions in the area where conditions are favorable for the accumulation of organic materials. Slopes range from 0 to 1 percent.

Typically this soil has a surface layer of black muck about 30 inches thick over a layer of black sandy clay loam about 14 inches thick. This is underlain by limestone at a depth of about 44 inches.

Under natural conditions the soil is covered by about 1 foot of water for 6 months or more in most years. The water table is at or near the surface the rest of each year, except during extended droughts. Existing drainage has only slightly reduced the period of standing water.

Permeability is rapid in the organic surface layer and slow in the loamy mineral layer. The available water capacity is high in the organic materials and medium to high in the underlying mineral material. Organic matter content is very high and natural fertility is high.

Included with this soil in mapping are small areas of Chobee, Copeland and Lauderhill soils. Also included are soils that are similar to Gator muck but have less than 20 inches of muck, or have limestone at depths of slightly less than 40 inches. Total inclusions in any mapped area are less than 25 percent.

All areas of this soil remain in native vegetation consisting of sawgrass, fireflag and willow, with a few areas of cypress in the southwestern part of the mapped area. This soil occupies the lowest positions in the landscape and is not feasible to drain and use for cultivated crops. It is best left in its natural condition and used for water storage and wetland wildlife.

This soil is in capability subclass VIIw.

Ha - HALLANDALE FINE SAND

This is a nearly level, poorly drained, sandy soil underlain by limestone at a depth of 4 to 20 inches. It is on broad, low flats or prairies interspersed with numerous depressions and shallow drainageways. Though all of the Miccosukee Indian land is made up of lowlands associated with the Everglades, this soil is slightly elevated above the rest and makes up about 75 percent of the mapped area. Slopes are mostly smooth to convex and range from 0 to 2 percent.

Typically the surface layer is black fine sand about 4 inches thick. The subsurface layer is light brownish gray fine sand about 3 inches thick. The subsoil is yellowish brown fine sand about 7 inches thick. Limestone with numerous solution holes is at a depth of about 14 inches. Solution holes make up to 25 percent of the area and are filled with fine sand, fine sandy loam or sandy clay loam. They are 6 to 36 inches in diameter and range to 50 inches or more in depth.

Under natural conditions the water table is within a depth of 10 inches for 2 to 4 months, and within a depth of 10 to 30 inches most of the rest of the year. During periods of high rainfall most areas are covered by shallow water for 7 days to a month. With the existing drainage in the area, the water table usually fluctuates with the water level in the canals and much of the time is below 20 inches.

Permeability is moderately rapid to rapid throughout. The available water capacity is low in the surface and subsoil layers and very low in the subsurface layer. Natural fertility and organic matter content are also low.

Included with this soil in mapping are small areas of Margate, Jupiter and Boca soils. Also included are similar soils with limestone at depths of less than 4 inches and scattered areas with limestone outcroppings. Total inclusions in any mapped area range to about 25 percent.

Most areas of this soil in the survey area are used for improved pasture. With adequate water control and good management that includes proper fertilization and controlled grazing, this soil will produce good yields of improved grasses. Because of wetness and a shallow root zone, this soil is poorly suited to cultivated crops. With bedding and complete water control it is suited to a variety of adapted vegetable crops. This soil is even more limited for citrus production, but with a well designed water control system, bedding and intense management, citrus crops can be grown.

This soil is in capability subclass IVw.

Hs - HALLANDALE FINE SAND, SLOUGH

This is a nearly level, poorly drained, sandy soil resting on limestone at depths of less than 10 inches. It is in broad, wooded slough areas in the southwestern part of the mapped Miccosukee Indian lands. Shallow depressions are scattered through the area. Slopes are smooth to concave and range from 0 to 1 percent.

Typically the surface layer is grayish brown fine sand about 2 inches thick. Below this is light gray fine sand about 3 inches thick. Limestone with numerous solution holes is at a depth of about 5 inches. Solution holes range to 2 feet in depth and are filled with fine sand and/or sandy marl with limestone fragments.

Under natural conditions the water table is within depths of 10 inches for 2 to 4 months. During periods of high rainfall, the soil is covered by slowly moving, shallow water for periods of 1 to 2 months. The rest of each year the water table recedes below the surface of the limestone.

Permeability is rapid in this soil. The available water capacity is low. Organic matter content and natural fertility are very low.

Included in mapped areas of this soil are small areas of Jupiter, Hallandale and Chobee soils. Also included are similar soils lacking the thin surface layer because of the eroding action of the slow moving water. Areas that have up to 35 percent of limestone outcropping are common and range up to 1 acre in size. Total inclusions in any mapped area range to about 30 percent.

This soil occurs only in the southwestern part of the Indian lands and though one drainage ditch is dug through the area, little drainage is effected because the elevation of the area is only slightly above the outlet. This soil area remains in native vegetation which is dominated by scattered to dense stands of cypress. Other vegetation includes wax myrtle, needlerush, maidencane, south Florida bluestem, blue maidencane and sedges. Also, in many parts of the area vegetation is very sparse. Apparently, the washing effect of the shallow waters periodically flowing through the slough makes it difficult for vegetation to become established in these areas.

This soil is in capability subclass Vw.

Ju - JUPITER FINE SAND

This is a nearly level, poorly drained, black sandy soil resting on limestone at a depth of 7 to 20 inches. It is in low flats, poorly defined drainageways, and in shallow depressions. Slopes are mostly smooth to concave and range from 0 to 2 percent.

Typically the surface layer is black mucky fine sand about 4 inches thick. Below this is very dark gray fine sand about 6 inches thick. Limestone with numerous solution holes is at a depth of 12 inches. Solution holes extend to depths of 2 to 5 feet and are filled with marl, or gray to brown fine sand or sandy loam.

Under natural conditions the water table is within a depth of less than 10 inches for about 4 months, and within depths of 10 to 20 inches most of the rest of the year. Lowest areas are covered by shallow water for periods of 3 months or more. The existing drainage in the area has to some extent reduced the periods of high water tables, but the lowest areas of this soil are little affected.

Permeability is rapid throughout. The available water capacity is medium to high in the surface layer and low in the subsurface layer. Content of organic matter is medium to high in the surface layer and natural fertility is medium.

Included with this soil in mapping are small areas of Haliandale, Margate and Dania soils. Also included are similar soils with thin loamy or marly layers above the limestone, and soils with limestone at depths of slightly more than 20 inches. Scattered limestone outcroppings occur in some areas. Total inclusions range to about 30 percent.

Most areas of this soil are used for improved pasture. Excessive wetness is the major limitation to this use. There are also a few small areas in mixed hardwood hammock vegetation and a few low spots that remain in native wetland vegetation. With an improved water control system and good management, this soil will produce high quality pastures of improved grasses or grass-clover mixtures. Excessive wetness and shallow depth to limestone severely limit the use of this soil for cultivated crops, but with a good water control system and good management, a variety of truck crops can be grown. The same soil properties are even more restrictive to citrus production, but with a well designed and maintained water control system and high level management, citrus crops can be produced successfully.

This soil is in capability subclass IVw.

La - LAUDERHILL MUCK

This is a nearly level, very poorly drained organic soil underlain by limestone at a depth of 20 to 40 inches. It occurs in a few of the deeper depressions in the area where conditions are favorable for the accumulation of organic materials. Slopes range from 0 to 1 percent.

Typically this soil has a surface layer of black muck about 22 inches thick. Below this is a thin layer of gray loamy marl with numerous limestone fragments. This layer rests on limestone at a depth of about 25 inches and fills solution holes in the rock.

Under natural conditions the soil is covered by water most of the year. Even with the existing drainage in the area, the water table is at or near the surface most of the time.

Permeability is rapid in the suface organic materials and moderate in the thin marl layer, though this layer is normally covered by water or is absent in some places. The available water capacity is high. Organic matter content and natural fertility are also high.

Included with this soil in mapping are small areas of Gator and Chobee soils. Also included are spots of Pahokee and Dania soils, which are similar to Lauderhill soils but have different depths to limestone. Total inclusions in any mapped area are less than 20 percent.

All areas of this soil remain in native vegetation consisting primarily or willow and sawgrass. This soil occupies the lowest positions in the landscape and drainage outlets are not available. Also, if it were drained, subsidence and oxidation would soon deplete the organic materials. This soil is best used in its natural condition for water storage and wetland wildlife habitat.

This soil is in capability subclass VIIw.

Ma - MARGATE FINE SAND

This is a nearly level, poorly drained, sandy soil underlain by limestone at a depth of 20 to 40 inches. It is on the broad, slightly elevated prairies and in transitional areas between the prairies and depressional areas. Slopes are less than 2 percent.

Typically the surface layer is black fine sand about 6 inches thick. The subsurface layer is light gray fine sand about 13 inches thick. The subsoil is brown fine sand about 11 inches thick. Limestone with numerous solution holes is at a depth of 30 inches. The solution holes extend to depths of 40 to 60 inches and are filled with calcareous sandy or loamy materials, often containing limestone fragments.

Under natural conditions the water table is within a depth of 10 inches for about 4 months, or the surface is covered by shallow water for 1 to 3 months. The water table is at depths of 10 to 30 inches most of the rest of the year. Existing drainage in the area has little affected the length of time the water table is at its maximum.

Permeability is rapid in all layers of this soil. Available water capacity is low in the surface layer and very low in all other layers. Natural fertility and content of organic matter are low.

Included with this soil in mapping are small areas of Hallandale, Jupiter and Boca soils. Also included are soils similar to Margate that have slightly thinner or thicker surface layers, depths of more than 40 inches to limestone, or that have a thin layer of muck on the surface. Total inclusions make up 20 to 25 percent of any mapped area.

All areas of this soil are used for improved pasture. With adequate water control and good management that includes rotation grazing, this soil will produce high yields of improved grasses and grass-clover mixtures. With good water control, bedding and proper management, this soil can be used for a wide variety of truck crops. Citrus can also be grown successfully on this soil if a well designed water control system is established and high level management is applied.

This soil is in capability subclass IVw.

Oc - OCHOPEE LOAMY FINE SAND

This is a nearly level, poorly drained, moderately rapidly permeable, calcareous, loamy soil resting on limestone at depths of less than 10 inches. This soil occurs in broad prairies and sloughs in the southern half of the mapped Miccosukee Indian lands lying south of Alligator Alley. Slopes are smooth and range from 0 to 1 percent.

Typically the surface layer is grayish brown loamy fine sand about 4 inches thick. Below this is light gray fine sandy loam about 2 inches thick. Limestone with many small to large solution holes is at a depth of about 6 inches.

This soil is on lowlands adjacent to the Conservation Area which is managed under a program of controlled inundation. Because of this and the porous limestone base, the soil remains covered by shallow water most of each year.

Permeability is moderately rapid in this soil. The available water capacity is low. Organic matter content and natural fertility are very low.

Included in mapped areas of this soil are small areas of Hallandale, Jupiter, Chobee and Gator soils. A few of the lowest areas may have an inch or two of muck on the surface, and most areas where water remains longest have a one inch layer of periphyton on the surface. Areas that have up to 40 percent limestone outcropping and ranging to 2 or 3 acres in size are quite common. Total inclusions in any mapped area range to about 25 or 30 percent.

This soil area remains in native vegetation which is dominated by sawgrass, cordgrass, maidencane, south Florida bluestem and other grasses. Some areas have scattered to dense stands of cypress, and many other areas have needlerush and other sedges.

This soil is in capability subclass Vw.

USE AND EXPLANATION OF SOIL INTERPRETATION TABLES

Introduction

The interpretation tables should be used only with soil surveys of medium or detailed intensity, that have been prepared according to standard procedures of the National Cooperative Soil Survey. It is not intended that they be used with "Land-Type Surveys," low intensity surveys, or general soil maps. The interpretations are for soils in their natural state and not for disturbed areas that are altered by cut or fill operations, or by drainage.

The soil interpretations will not eliminate the need for on-site sampling, testing, and study of specific sites for design and construction of engineering works and various uses. The interpretations sheets should be used primarily to plan more detailed field investigations to determine the conditions of the soil at the proposed site for the intended use.

When the interpretations in the tables are used in connection with delineated soil areas on the soil map, the information pertains to the dominant soil which is named. Other soils, too small an area to map out, may occur within the soil map area. The interpretations ordinarily do not apply to the included soils. More detailed studies are required if small, specific sites are to be developed or used within a given soil area. For example, a soil map bearing the name Jupiter also can include small, unmappable areas of other soil such as Copeland and Gator. The interpretations apply only to the Jupiter part of the delineated soil area and not to the entire soil area.

ESTIMATED SOIL PROPERTIES

Introduction

The interpretation tables show the name of the series to which the interpretations are applicable. The estimated soil properties for the soil series are shown in the various tables. Although the soils bearing the same name are similar between counties and states, the physical and chemical properties of these soils may vary somewhat from one county to another and one state to another; however, the properties of the soil at any location should fall within the range of the estimates given for the soil series in the tables. For some soils, some of the physical and chemical properties are based on test data; in others, these are best estimates based on test data on similar soils.

Explanation of Items

Depth (In.)--The depth in inches of the major soil horizons that have similar properties are given in this column.

USDA Texture--The USDA texture is based on the relative amounts of sand, silt, and clay in a soil, giving rise to textural classes such as sand,

sandy loam, loam, clay loam, and clay. (USDA Handbook No. 18, SOIL SURVEY MANUAL)

TABLE H

Unified Classification--In the Unified System, soils are classified according to particle size distribution, plasticity, liquid limit, and organic matter. Soils are grouped in 15 classes. There are eight classes of coarse-grained soils, identified as GW, GP, GM, GC, SW, SP, SM, and SC; six classes of fine-grained soils, identified as ML, CL, OL, MH, CH, and OH; and one class of highly organic soils, identified as Pt. Soils on the borderline between two classes are designated by symbols for both classes; for example, SP-SM.

AASHO Classification--The AASHO system is used to classify soils according to those properties that affect use in highway construction and maintenance. In this system, a soil is placed in one of seven basic groups ranging from A-1 through A-7 on the basis of grain-size distribution, liquid limit, and plasticity index. In group A-1 are gravelly soils of high bearing strength, or the best soils for subgrade (foundation). At the other extreme, in group A-7, are clay soils that have low strength when wet and that are the poorest soils for subgrade. The A-1, A-2, and A-7 groups can be further divided as follows: A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, and A-7-6.

Fraction Greater than 3 inches (Pct.)--Most soils in Florida do not have material this coarse. Soils that have a high content of shell may have a small percentage of shells larger than 3 inches. Soils in Florida that contain pebbles larger than 3 inches are rare.

Fraction Less than 3 inches Passing Sieve No.--The measured or estimated percentages of materials passing the numbers 4, 10, 40, and 200 sieves are given for each major horizon. The percent passing the 200 sieve approximates the amount of silt and clay, but does includes some very fine sand. A range is listed because of variability for a given soil.

Liquid Limit and Plasticity Index--These indicate the effect of water on the strength and consistence of soil material. As the moisture content of a clayey soil is increased from a dry state, the material changes from a semisolid to a plastic state. If the moisture content is further increased, the material changes from a plastic to a liquid state. The plastic limit is the moisture content at which the soil material changes from the semisolid to plastic state; and the liquid limit from a plastic to a liquid state. The plasticity index is the numerical difference between the liquid limit and the plastic limit. It indicates the range for moisture content within which a soil material is plastic.

TABLE J

Clay (Pct.)--The measured or estimated percentages of a mineral soil separate consisting of particles less than 0.002 millimeter in diameter. A range is given because of the variability for a given soil.

Moist Bulk Density--The mass (weight) of a unit volume of moist soil. This volume includes both soil and pores. Soils that are loose and porous will have low bulk densities and those that are more compact will have high values. A range is listed because of the variability for a given soil.

Permeability (In./Hr.)--That quality of a soil that enables it to transmit water or air. Values listed are estimates of the range in rate and time it takes for downward movement of water in the major soil layers when saturated, but allowed to drain freely. The estimates are based on soil texture, soil structure, available data on permeability and infiltration tests, and drainage observations of the water movement through soils. On a given soil, percolation through the surface layer varies according to land use and management as well as with initial moisture content. The permeability is shown in inches per hour. For example, in a soil that has a permeability rate of 6.0 inches per hour in 3 hours free water would move downward a distance of (3 x 6") 18 inches.

Available Water Capacity (In./In.)--The ability of soils to hold water for use by most plants. The available water capacity is given in inches per inch of soil for major horizons. The water retention of the soil is related to the particle size, organic matter content, and to the arrangement and size of soil pores. Fine-texture soils tend to have higher water retention due to small pores than do sandy soils with large pores. Estimates of the available water capacity for soils with normally high water tables may appear meaningless until one considers the possibility of artificial drainage or the natural lowering of the water table during dry seasons, or late summer or fall. Soils of the same series vary from place to place. Therefore, values can deviate considerable from those listed. It is commonly defined as the difference between field capacity (1/3 atmosphere for loamy and clayey materials of 1/10 atmosphere for sand) and the wilting percentage (15 atmospheres) time bulk density times the thickness in inches of the soil. The formula for AWC is:

$$\text{AWC (in/in)} = \frac{\text{1/3 (or 1/10) bar \% - 15 bar \} x bulk density, moist}}{100}$$

For example, in a soil that has an available water capacity of 0.10 in/in of soil, there would be 0.1 inch of water available for plant growth for each inch of soil, and in 24 inches of soil (0.1 x 24") 2.4 inches available.

Soil Reaction--The degree of acidity of alkalinity of a soil. It is expressed in pH - the logarithm of the reciprocal of the H-ion concentration. A soil that tests to pH 7.0 is precisely neutral in reaction because it is neither acid nor alkaline. In words, the degrees of acidity or alkalinity are expressed thus:

	pH
Extremely acid	Below 4.5
Very strongly acid	4.5 to 5.0
Strongly acid	5.1 to 5.5

	pH
Medium acid	5.6 to 6.0
Slightly acid	6.1 to 6.5
Neutral	6.6 to 7.3
Mildly alkaline	7.4 to 7.8
Moderately alkaline	7.9 to 8.4
Strongly alkaline	8.5 to 9.0
Very strongly alkaline	9.1 and higher

Salinity (mmhos/cm)--The salinity is expressed in terms of the electrical conductivity of a saturation extract in millimhos per centimeter at 25 degrees centigrade. The following shows the response of plants associated with different ranges for electrical conductivity of saturation extracts of soils.

Electrical Conductivity of Saturation Extract mmho/cm at 25° C	Plant Response
0-2	Salinity effects usually negligible
2-4	Yield of very salt-sensitive crops may be restricted
4-8	Yield of salt-sensitive crops restricted
8-16	Only salt-tolerant crops yields satisfactory
16	Only a few very salt-tolerant crops yield satisfactory

If salinity is zero or no problem for growing crops, a dash is shown on the interpertation sheet. Except for areas of tidal marsh or tidal swamp along the coasts, salinity is of no importance in Florida soils.

Shrink-swell Potential--The relative change in volume to be expected of soil material with changes in moisture content; that is, the extent to which the soil shrinks as it dries out or wells when it gets wet. Extent of shrinking and swelling is influenced by the amount and kind of clay in the soil. Shrinking and swelling of soils cause much damage to building foundations, roads, and other structures. A high shrink-swell potential indicates a hazard to maintenance of structures built in, on, or with material having this rating.

Erosion Factors, (K and T)--A soil erodibility factor (K) and the soil-loss tolerance (t) are used in an equation that predicts the amount of soil loss resulting from rainfall erosion of cropland. The soil erodibility factor "K" is measure of the rate at which a soil will erode. Values are

expressed as tons of soil loss per acre per unit of R (rainfall factor) from continuous fallow (three years or more) on a 9 percent slope, 73 feet long. Thus, the K factor reflects the rate that soil erodes when other factors affecting erosion are constant. Soil properties that influences erodibility by water are: those that affect infiltration rate, movement of water through the soil, and water storage capacity; and those that resist dispersion, splashing, abrasion, and transporting forces from rainfall and runoff. Some of the soil properties that are most important are texture and organic matter of the surface layer, size and stability of structural aggregates in the surface layer, permeability of the subsoil, and depth to slowly permeable layers.

The soil-loss tolerance "T" sometimes called permissible soil loss, is the maximum rate of soil erosion that will permit a high level of crop productivity to be sustained economically and indefinitely. These rates are expressed in tons of soil loss per acre per year. Rates of 1 through 5 tons are used in the south, depending upon soil depth and prior erosion.

Wind Erodibility Groups--Soils that are subject to wind erosion are grouped into 8 groups according to their susceptibility to soil blowing. Sandy soils are most susceptible to soil blowing, especially during dry periods when wind velocities are high. Organic soils are normally wet, but they are also subject to soil blowing when drained and cultivated if the soil surface is left bare during extreme dry periods and wind velocities are high.

Organic Matter (Pct.)--The measurement of estimated percentage of the organic fraction of the soil that includes plant and animal residues at various stages of decomposition, cell and tissues of soil organisms, and substances synthesized by the soil population. It is commonly determined as the amount of organic material contained in a soil sample passed through a 2-millimeter sieve. Estimates of organic matter are given only for the surface layer.

TABLE K

Flooding--Flooding is defined as temporary covering of soil surface by water from any source, such as streams overflowing their banks, runoff from adjacent or surrounding slopes, inflow from high tides, or combinations of these. Shallow water standing during or shortly following a rain is excluded from the definition of flooding. Marshes and swamps are excluded from the definition of flooding because water is more than a temporary covering.

Flooding hazard may be expressed by one of three general flood frequency classes - none, rare, or common. Duration and time of year that the flooding occurs is given for those soils with common flood hazards. Not considered here, but nevertheless important, are velocity and depth of flood waters. The classes of flooding are defined as follows:

None	No reasonable possibility of flooding.

Rare — Flooding unlikely but possible under unusual weather conditions. No evidence of recent water deposited sediments on surface or within the pedon. Pedogenic horizons have developed within most soils. Flooding probability is so low that it imposes no more than slight or moderate soil limitation ratings for soil uses except those with high per-acre investments, such as residential developments.

Common — Flooding is likely under usual weather conditions. Most pedons show evidence or recent water deposited sediments or scouring. The probability of recurring floods is great enough to impose severe limitations on many uses of soils, such as sanitary facilities and community development. Restrictions on farming may be slight to severe depending on duration and season of flooding.

Where a finer breakdown of common flooding is made, the following classes under common flooding are used:

Occasional — Less often than once in 2 years on the average. Most pedons show evidence of past deposition or scouring. The probability of floods is not great enough to interfere seriously with farming operations although some crop damage is likely.

Frequent — More often that once in 2 years on the average. The pedon shows evidence of yearly deposition or scouring. In addition, debris or other recent flood water marks are easily observable on the ground, on trees, fences, or bridges. The probability of floods is great enough to restrict the choice of crops, cause severe crop damage, or prevent the production of crops.

Duration refers to the length of time that the soils are flooded. Only duration classes for commonly frequency classes are given. These classes are as follows:

Very brief — Less than 2 days. Soils have sufficient surface drainage so that flood waters run off and damage, if any, to crops results mainly from scouring or sedimentation.

Brief — 2 to 7 days. Relatively permeable soils on level or depressional landscapes or soils with restricted permeability on nearly level landscapes. Most cultivated crops are severely affected by flooding; most pasture plants and trees species are slightly or moderately affected.

Long	7 days to 1 month. Soils on nearly level or depressional landscapes with restricted surface drainage or restricted permeability, or both. Only water tolerant plants can survive.
Very Long	More than 1 month. Soils on nearly level or depressional landscapes with highly restricted surface drainage and restricted permeability. Only water tolerant plants survive.

The time of year that flooding normally occurs is expressed in months, for example, December-May.

The economic and social consequences of improper land use of flood prone areas are serious. Problems begin when structures are located in flood prone areas. The initial development encourages additional construction and the installation of streets and utilities. The capacity of the floodway may be reduced by these kinds of developments increasing the flood hazard. When flooding occurs, losses are not borne only by the property owner but by the community as well. The public is usually called upon to bear the cost of flood fighting, rehabilitation, and flood protection.

Dwellings, commercial buildings, and other high cost developments that are easily damaged by floods should not be located on flood prone soils. Sanitary facilities such as septic tank filter fields, sewage lagoons, and sanitary landfills built on flood prone soils present a health hazard. Roads and street built on flood prone soils are likely to be closed during floods and may require extensive maintenance or restoration after floods.

In agricultural areas the consequences of flooding are much less expensive, but nevertheless, may present a hazard to the production of crops. the frequency, duration, and time of year the flooding occurs influences whether trees, pasture, or crops can be grown.

Trees and pastures can withstand more flooding than crops. Certain short season crops, however, can be grown successfully if the growing season is relatively flood free.

High Water Table--A high water table is defined as a zone of saturation at the highest average depth during the wettest season. It persists in the soil for more than a few days and occurs within 80 inches of the soil surface.

Most water tables occur within the soil and are measured from the surface of the soil down to the free-water level. In swamps and marshes, however, the water table is above the surface of the soil much of the time and the water table is measured from the surface of the water down to the soil surface.

Soils that have seasonal high water tables are classified according to depth to the water table, kind of water table, and time of year that the water table is highest.

The depth of the high water table from the soil surface is given in feet or half feet. The range in depth reflects the year-to-year variation in average highest depth. Depth to water table within the soil is recorded with the small number first, e.g., 2-3. Water table above the soil surface is recorded with a +, e.g., +2; if the water table varies such that the average highest depth can be above or below the surface, it is recorded as follows: +1-.05, with the first number indicating 1 foot above the soil surface, and the second number 1/2 foot below the soil surface. Where a water table is below 6 feet or exists for less than one month, 6.0 is shown under depth.

Three kinds of seasonal high water table are recognized within the soil: apparent, perched, and artesian.

Apparent Water Table - is the level at which water stands in a dug unlined borehole. It is influenced by the hydrostatic pressure of soil water and by pressure at greater depths penetrated by the borehole, water relations across impermeable layers, and other factors, in the absence of evidence that would permit greater specificity, therefore, the term apparent water table is used for the level at which water stands in an uncased borehold after adequate time of adjustment in the surrounding soil.

Perched Water Table - is one that exists in the soil above an unsaturated zone. A water table may be inferred to be perched on the basis of general knowledge of the water levels of an area, the landscape position, the permeability of soil layers, and from other evidence. To prove that a water table is perched, it is necessary to observe the water level in cased wells placed above, in, and below the less permeable layer. If the water in the well above the less permeable layer is consistently higher than the other two, the water table is perched.

Artesian Water Table - is one that exists under hydrostatic head beneath an impermeable layer has been penetrated by a cased borehole, the water rises. The final level of the water in the cased borehole may then be characterized as an artesian water table.

Areas with water tables above the surface of the soil much of the time are characterized as marsh or swamp - marsh having herbaceous vegetation and swamps having woody vegetation.

The months that the water table normally persists at the average highest depth range is shown, for example, January through April.

A seasonal high water table is an important criterion in a number of engineering and biological uses of soils. Its depth and duration influences the use of soils for septic tank absorption fields, shallow excavations, sanitary landfills, dwellings, and local roads and streets, and ease of excavation for roadfill and topsoil.

The water table also influences the growth of crops - a water table that is near the surface during the growing season is detrimental to most plants. Growing plants, however, tend to lower the water table through transpiration. A change in land use may drastically change the wetness of an area. For example, a change from trees to soybeans changes the transpiration rate and may cause a wetter soil condition. Changing land use from cropland, pasture, or forest to urban areas with streets and houses covering a much larger area not only decreases the transpiration by vegetation but also causes increased runoff. A wetter soil may result.

Bedrock--This is solid rock beneath the soil. The depth to bedrock is shown in inches for soils with bedrock within 60 inches of the soil surface. All other soils are shown as 60. Most soils in Florida are observed to depths of more than 60 inches. Refer to the depth in inches adjacent to the USDA texture to determine the depth of observation. The hardness of the bedrock is shown as SOFT or HARD. "SOFT" rock can be excavated using a single tooth ripping attachment mounted on a 200-300 horsepower tractor, "HARD" rock requires blasting or use of excavators larger than 200-300 horsepower.

Subsidence--This refers to the lowering of the level of the soil surface. When water is removed and the water table is lowered in organic soils and some mineral soils with low strength in tidal marshes, the soil will subside. Initially, or in the first few years, the subsidence is most pronounced or greatest. After initial subsidence, organic soils in Florida subside or oxidize at the rate of about 1 inch per year. Total subsidence is estimated in inches.

Corrosivity, Steel--This refers to the potential for corrosion of uncoated steel pipe buried in the soil. The soils are rates as follows: LOW (slightly corrosive), MODERATE (moderately corrosive), and HIGH (severely corrosive). Corrosion of uncoated steel pipe is a physical-biochemical process converting iron into its ions. Soil moisture is needed to form solutions with soluble salts before the process can operate. The corrosivity is estimated by electrical resistivity or resistance to flow of current, total acidity, soil drainage, and soil texture.

Corrosivity, Concrete--This refers to the potential for deterioration of concrete placed in soil materials. Deterioration is caused by a chemical reaction between the concrete (a base) and the soil solution (potential weak acid). Special cements and methods of manufacturing may be used to reduce rate of deterioration in soils of high corrosivity. Some of the soil properties that affect the rate of deterioration are soil texture and acidity, the amount of sodium or magnesium present in the soil singly or in combination, and amount of sodium chloride in the soil. The presence of sodium chloride in the soil indicates the presence of sea water. Sea water contains sulphates which is one of the principal corrosive agents.

Hydrologic Groups--Soils are grouped into four hydrologic soil groups, A through D. These groups are used mostly in watershed planning to estimate runoff from rainfall. Soil properties were considered that influence the minimum rate of infiltration obtained for a bare soil after prolonged wetting. These properties are: depth to seasonally high water table, intake rate and permeability after prolonged wetting, and depth to a layer or layers that slow or impede water movement.

Dual hydrologic groups are given for wet soils rated D in their natural condition that can be adequately drained. It is considered that drainage is feasible and practical and that drainage improves the hydrologic group by at least two classes (from D to A or B). The first letter applies to the drained condition.

Hydrologic Group A--(Low runoff potential) Soils that have high infiltration rates even when thoroughly wetted and a high rate of water transmission.

Hydrologic Group B--(Moderately low runoff potential) Soils that have moderate infiltration rates when thoroughly wetted and a moderate rate of water transmission.

Hydrologic Group C--(Moderately high runoff potential) Soils that have slow infiltration rates when thoroughly wetted and a slow rate of water transmission.

Hydrologic Group D--(High runoff potential) Soils having very slow infiltration rates when thoroughly wetted and a very slow rate of water transmission.

CAPABILITY AND PREDICTED YIELDS - CROPS AND PASTURE

TABLE B1

Capability Classes, the broadest groups, are designated by Roman numerals I through VIII. The numerals indicate progressively greater limitations and narrower choices for practical use, defined as follows:

Class I — Soils have few limitations that restrict their use.

Class II — Soils have moderate limitations that reduce the choice of plants or that require moderate conservation practices.

Class III — Soils have severe limitations that reduce the choice of plants, require special conservation practices, or both.

Class IV — Soils have very severe limitations that reduce the choice of plants, require very careful management, or both.

Class V — Soils are not likely to erode but have other limitations, impractical to remove, that limit their use largely to pasture, range, woodland, or wildlife.

Class VI — Soils have very severe limitations that make them generally unsuited to cultivation and limit their use largely to pasture, range, woodland or wildlife.

Class VII — Soils have very severe limitations that make them unsuited to cultivation and restrict their use largely to pasture, range, woodland, or wildlife.

Class VIII — Soils and landforms have limitations that preclude their use for commercial plants and restrict their use to recreation, wildlife, water supply or to aesthetic purposes.

Capability subclass are soil groups within one class; they are designated by adding a small letter, e, w, or s to the class numeral, for example, IIe. The letter e shows that the main limitation is risk or erosion unless close growing plant cover is maintained; w shows that water in or on the soil surface interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); s shows that the soil is limited mainly because it is shallow, droughty, or stony.

In Class I there are no subclasses, because the soils of this class have few limitations. Class V can contain, at the most, only the subclass indicated by w and s because the soils in Class V are subject to little or no erosion, though they have other limitations that restrict their use largely to pasture, range, woodland, wildlife, or recreation.

Potential Yields Predicted yields are for principal crops grown on the soil. The predictions are based on estimates made by farmers, county and on information taken from research data. The predicted yields are average yields per acre that can be expected by good commercial farmers at the level of management which tends to produce the highest economic returns.

WILDLIFE SUITABILITY

TABLE F

Introduction

Soils directly influence kinds and amounts of vegetation and amounts of water available, and in this way indirectly influence the kinds of wildlife that can live in an area. Soil properties that affect the growth of wildlife habitat are: (1) thickness of soil useful to crops, (2) surface texture, (3) available water capacity to a 40-inch depth, (4) wetness, (5) surface stoniness or rockiness, (6) flood hazard, (7) slope, and (8) permeability of the soil to air and water.

On the interpretation sheet, soils are rated for producing eight elements of wildlife habitat and for three groups, or kinds, of wildlife. The ratings indicate relative suitability for various elements. A rating of good means the element of wildlife habitat and habitats generally are easily created, improved, and maintained. Few or no limitations affect

management in this category and satisfactory results are expected when the soil is used for the prescribed purpose.

A rating of fair means the element of wildlife habitat, and habitats can be improved, maintained, or created in most places. Moderate intensity of management and fairly frequent attention may be required for satisfactory results, however.

A rating of poor means the element of wildlife and limitations for the designated use are rather severe. Habitats can be improved, maintained, or created in most places, but management is difficult and requires intensive effort.

A rating of very poor means the elements of wildlife habitat are very severe and that unsatisfactory results are to be expected. It is either impossible or impractical to improve, maintain, or create habitats on soils in this category.

Explanation of Items

Potential for habitat elements Each soil is rated according to its suitability for producing various kinds of plants and other elements that make up wildlife habitats. The ratings take into account mainly the characteristics of the soils and closely related natural factors of the environment. They do not take into account climate, present use of soils, or present distribution of wildlife and people. For this reason, selection of a site for development as a habitat for wildlife requires inspection at the site.

Grain and seed These are annual grain-producing plants such as corn, sorghum, millet, and soybeans.

Grass and legumes Making up the group are domestic grasses and legumes that are established by planting. They provide food and cover for wildlife. Grasses include bahiagrass, ryegrass, and panicgrass; legumes include annual lespedeza, shrub lespedeza, and other clovers.

Wild herbaceous This group consists of native or introduced perennial grasses, forbs, and weeds that provide food and cover for upland wildlife. Beggarweed, perennial lespedeza, wild bean, pokeweed, and cheatgrass are typical examples. On rangeland, typical plants are bluestem, grama, perennial forbs and legumes.

Hardwood trees These plants are nonconiferous trees, shrubs, and woody vines that produce wildlife food in the form of fruits, nuts, buds, catkins, or browse. Such plants commonly grow in their natural environment, but they may be planted and developed through wildlife management programs. Typical species in this category are oak, beech, cherry, dogwood, maple, viburnum, grape, honeysuckle, greenbrier, and silverberry.

Coniferous plants These plants are cone-bearing trees and shrubs that provide cover and frequently furnish food in the form of browse, seeds, or fruitlike cones. They commonly grown in their natural environment, but they may be planted and managed. Typical plants in this category are pines, cedars, and ornamental trees and shrubs.

Shrubs This column is not applicable to soils in Florida, and a dash is used to indicate this.

Wetland plants In this group are annual and perennial herbaceous plants that grow wild on moist and wet sites. They furnish food and cover mostly for wetland wildlife. Typical examples of plants are smartweed, wild millet, spikerush and other rushes, sedges, burred, tearthumb, and aneilema. Submerged and floating aquatics are not included in this category.

Shallow water This includes impoundments or excavations for controlling water, generally not more than five feet deep, to create habitats that are suitable for waterfowl. Some are designed to be drained, planted, and then flooded; others are permanent impoundments that grow submerged aquatics.

Potential as habitat for The soils are rated according to their suitability as habitat for (1) openland wildlife, (2) woodland wildlife, and (3) wetland wildlife. These ratings are related to ratings made for elements of habitat. For example, soils rated unsuited for shallow water developments are rated unsuited for wetland wildlife.

(1) Openland wildlife are birds and mammals that normally live in meadows, pastures, and open areas where grasses, herbs, and shrubby plants grow. Quail, doves, meadowlarks, field sparrows, cottontail rabbits, and foxes are typical examples of openland wildlife.

(2) Woodland wildlife are birds and mammals that normally live in wooded areas of hardwood trees, coniferous trees, and shrubs. Thrushes, wild turkeys, vireos, deer, squirrels, and raccoons are typical examples of woodland wildlife.

(3) Wetland wildlife are birds and mammals that normally live in wet areas, marshes, and swamps. Ducks, geese, rails, shore birds, and herons are typical examples of wetland wildlife.

Rangeland wildlife is not rated in Florida since woodland wildlife is rated and is applicable to Florida conditions and soils.

POTENTIAL NATIVE PLANT COMMUNITY
(RANGELAND OR FOREST UNDERSTORY VEGETATION)

Introduction

Soils in their native state have a vegetative cover or plant community that has been grown and adapted to the conditions of the particular soil on which it is found. Cultivation, burning, and over-grazing may result in a different plant community than was originally on the soil in its native state. Where data are available, a list of the common plants by name, the plant symbol, the percentage composition by class determining phase, and the potential production in favorable years, normal years, and unfavorable years are shown on the interpretation sheet.

Explanation of Items

Common plant names The common names of the major native plants that grow under climax condition on the soil are listed in this column for each class determining phase.

Phase symbol (NLSPN) A symbol derived from a combination of letters from the scientific name of the plant as compiled in the National List of Scientific Plant Names, USDA, SCS, 1971 is shown in this column.

Percentage composition (dry weight) by class determining phase The percentage of the total composition that each named plant makes up is shown in these columns for each class determining phase. Where data are not available and acceptable estimates cannot be made, the species are listed in order of their general productivity and the columns for percent composition are left blank.

Potential production The potential production of grazeable forage is shown as pounds per acre on a dry weight basis for favorable years, normal years, and unfavorable years. Favorable years are those in which rainfall and climatic conditions are favorable for the growth of plants. Normal years can be considered as years in which rainfall and climatic conditions are average for the growth of plants. Unfavorable years are those in which rainfall and climatic conditions are unfavorable for the growth of plants.

TABLE H.--ENGINEERING INDEX PROPERTIES

(The symbol < means less than; > means more than. Absence of an entry indicates that data were not estimated)

Map symbol and soil name	Depth	USDA texture	Classification		Fragments > 3 inches	Percentage passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO		4	10	40	200		
	In				Pct					Pct	
Bc Boca	0-4	Fine sand	SP, SP-SM	A-3, A-2-4	0	100	100	80-100	2-12	---	NP
	4-32	Sand, fine sand	SP, SP-SM	A-3, A-2-4	0	100	100	80-100	2-12	---	NP
	32-38	Sandy loam, sandy clay loam, fine sandy loam.	SC, SM-SC	A-2, A-6, A-4	0	100	100	80-100	17-40	16-37	5-20
	38	Weathered bedrock	---	---	---	---	---	---	---	---	---
Ch Chobee	0-6	Muck	PT	---	---	---	---	---	---	---	---
	6-42	Sandy clay loam	SC	A-2-6, A-2-7, A-6	0	100	95-100	85-95	12-45	<40	10-25
	42	Weathered bedrock	---	---	---	---	---	---	---	---	---
Co Copeland	0-10	Mucky fine sand	SP-SM, SM	A-3, A-2-4	0	100	100	85-100	5-15	---	NP
	10-18	Fine sand, loamy fine sand, loamy sand	SP-SM, SM	A-3, A-2-4	0	100	100	80-100	5-15	---	NP
	18-24	Sandy loam, fine sandy loam, sandy clay loam.	SM-SC, SC	A-2-4, A-2-6	0	100	100	80-100	20-35	17-37	5-20
	24	Weathered bedrock	---	---	---	---	---	---	---	---	---
Ga Gator	0-30	Muck	PT	A-8	0	---	---	---	---	---	---
	30-44	Loam, fine sandy loam, sandy clay loam.	SM-SC, SC, SM	A-2-4, A-2-6	0	100	100	80-99	20-35	<40	NP-15
	44	Weathered bedrock	---	---	---	---	---	---	---	---	---
Ha Hallandale	0-4	Fine sand	SP, SP-SM	A-3	0	100	100	90-100	2-6	---	NP
	4-7	Fine sand, sand	SP, SP-SM	A-3	0	100	100	90-100	2-6	---	NP
	7-14	Fine sand, sand	SP, SP-SM	A-3	0	100	100	90-100	2-6	---	NP
	14	Weathered bedrock	---	---	---	---	---	---	---	---	---
Hs Hallandale	0-2	Fine sand	SP-SM	A-3, A-2-4	0	95-100	90-100	75-95	5-12	---	NP
	2-5	Fine sand	SP-SM	A-2-4	0	95-100	90-100	75-95	5-12	---	NP
	5	Weathered bedrock	---	---	---	---	---	---	---	---	---
Ju Jupiter	0-4	Fine sand	SP-SM	A-3, A-2-4	0	100	100	85-95	5-12	<40	NP
	4-12	Sand, fine sand	SP, SP-SM	A-3	0	100	100	85-95	2-8	<40	NP
	12	Weathered bedrock	---	---	---	---	---	---	---	---	---
La Lauderhill	0-25	Muck	PT	---	0	---	---	---	---	---	---
	25	Weathered bedrock	---	---	---	---	---	---	---	---	---
Ma Margate	0-6	Fine sand	SP, SP-SM	A-3	0	100	100	95-100	2-8	---	NP
	6-19	Fine sand, sand	SP, SP-SM	A-3	0	100	100	95-100	2-8	---	NP
	19-30	Fine sand, sand	SP, SP-SM	A-3	0	100	100	95-100	2-8	---	NP
	30	Weathered bedrock	---	---	---	---	---	---	---	---	---

TABLE J.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS

(The symbol < means less than; > means more than. Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Organic matter" apply only to the surface layer. Absence of an entry indicates that data were not available or were not estimated)

Map symbol and soil name	Depth	Clay	Moist bulk density	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors		Wind erodibility group	Organic matter
									K	T		
	In	Pct	G/cc	In/hr	In/in	pH	mmhos/cm					Pct
Bc	0-4	1-5	1.30-1.55	6.0-20	0.05-0.10	5.1-8.4	<2	Low	0.10	2	2	1-3
Boca	4-32	1-5	1.50-1.60	6.0-20	0.02-0.05	5.1-8.4	<2	Low	0.17			
	32-38	14-30	1.55-1.65	0.6-2.0	0.10-0.15	5.1-8.4	<2	Low	0.20			
	38	---	---	---	---	---	---	---	---			
Ch	0-6	---	0.15-0.35	6.0-20	0.30-0.50	5.1-6.5	---	Low	0.10	2	2	25-50
Chobee	6-26	20-35	1.50-1.70	0.06-0.2	0.12-0.17	6.1-8.4	<2	Moderate	0.32	---	---	---
	42	---	---	---	---	---	---	---	---			
Co	0-10	2-5	1.20-1.55	6.0-20	0.20-0.25	5.1-6.5	---	Low	0.10	5	2	10-15
Copeland	10-18	2-10	1.35-1.55	6.0-20	0.05-0.10	6.1-7.3	<2	Low	0.17	---	---	---
	18-24	15-30	1.55-1.70	0.6-2.0	0.10-0.15	7.4-8.4	<2	Low	0.24			
	24	---	---	---	---	---	---	---	---			
Ga	0-30	0-1	0.10-0.30	6.0-20	0.30-0.40	5.6-7.3	<2	Low	---	---	2	55-85
Gator	30-44	13-20	1.60-1.70	<0.2	0.10-0.15	6.1-8.4	<2	Low	0.32			
	44	---	---	---	---	---	---	---	---			
Ha	0-4	<3	1.35-1.45	6.0-20	0.05-0.10	5.1-6.5	<2	Low	0.10	2	2	1-3
Hallandale	4-7	<3	1.50-1.60	6.0-20	0.03-0.08	6.1-6.5	<2	Low	0.10			
	7-14	<3	1.50-1.60	0.6-6.0	0.03-0.08	5.6-8.4	<2	Low	0.10			
	14	---	---	---	---	---	---	---	---			
Hs	0-2	1-10	1.25-1.55	6.0-20	0.05-0.07	5.1-6.5	<2	Low	0.10	5	2	<1
Hallandale	2-5	2-10	1.35-1.55	6.0-20	0.05-0.08	5.1-6.5	<2	Low	0.10			
	5	---	---	---	---	---	---	---	---	---		
Ju	0-4	2-8	1.35-1.50	6.0-20	0.12-0.18	6.1-8.4	<2	Low	0.10	2	2	3-5
Jupiter	4-12	1-3	1.50-1.65	6.0-20	0.05-0.08	6.1-8.4	<2	Low	0.17			
	12	---	---	---	---	---	---	---	---			
La	0-25	---	0.15-0.35	6.0-20	0.30-0.50	5.6-7.8	<2	Low	---	---	2	60-90
Lauderhill	25	---	---	---	---	---	---	---	---			
Ma	0-6	1-4	1.25-1.45	6.0-20	0.05-0.10	4.5-6.0	<2	Low	0.10	3	2	1-4
Margate	6-19	0-4	1.55-1.65	6.0-20	0.03-0.06	5.1-6.5	<2	Low	0.10			
	19-30	1-4	1.55-1.65	6.0-20	0.03-0.06	6.1-7.8	<2	Low	0.10			
	30	---	---	---	---	---	---	---	---			

TABLE K.--SOIL AND WATER FEATURES

("Flooding" and "water table" and terms such as "rare," "brief," "apparent," and "perched" are explained in
< means less than; > means more than. Absence of an entry indicates that the feature is not a concern
estimated)

Map symbol and soil name	Hydrologic group	Flooding			High water table			Bedrock		Subsider	
		Frequency	Duration	Months	Depth	Kind	Months	Depth	Hardness	Initial	Tot
					Ft			In		In	In
Bc---------- Boca	B/D	None--------	---	---	0-1.0	Apparenz&	Jun-Feb	24-40	Soft	---	--
Ch---------- Chobee	D	None--------	---	---	+2-0	Apparent	Jun-Mar	40-79	Soft	---	--
Co---------- Copeland	D	None--------	---	---	+2-1.0	Apparent	Jul-Apr	20-50	Soft	---	--
Ga---------- *Gator	D	None--------	---	---	+2-1.0	Apparent	Jun-Dec	>40	---	6-14	20-
Ha---------- Hallandale	B/D	None--------	---	---	0-1.0	Apparent	Jun-Nov	7-20	Soft	---	--
Hs---------- Hallandale	B/D	None--------	---	---	0-1.0	Apparent	Jun-Nov	2-20	Soft	---	--
Ju---------- Jupiter	B/D	None--------	---	---	0-1.0	Apparent	Jun-Nov	8-20	Soft	---	--
La---------- Lauderhill	B/D	None--------	---	---	+1-1.0	Apparent	Jun-Feb	20-40	Soft	8-12	16-
Ma---------- Margate	B/D	None--------	---	---	+1-1.0	Apparent	Jun-Feb	20-40	Soft	---	--

TABLE B1.--LAND CAPABILITY CLASSES AND YIELDS PER ACRE OF CROPS AND PASTURE

(Yields are those that can be expected under a high level of management. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil)

Map symbol and soil name	Land capability	Bahiagrass	Oranges	Grapefruit	Tomatoes
		AUM*	Boxes	Boxes	Tons
Bc---------- Boca	IIIw	7.5	375	575	16
Ch---------- Chobee	VIIw	---	---	---	---
Co---------- Copeland	VIIw	---	---	---	---
Ga---------- Gator	VIIw	---	---	---	---
Ha---------- Hallandale	IVw	5.5	375	500	16
Hs---------- Hallandale	Vw	---	---	---	---
Ju---------- Jupiter	IVw	6.0	375	500	16
La---------- Lauderhill	VIIw	---	---	---	---
Ma---------- Margate	IVw	7.5	300	400	12

* Animal-unit-month: The amount of forage or feed required to feed one animal unit (one cow, one horse, one mule, five sheep, or five goats) for 30 days.

TABLE F.--WILDLIFE HABITAT

(See text for definitions of "good," "fair," "poor," and "very poor." Absence of an entry indicates that the soil was not rated)

Map symbol and soil name	Potential for habitat elements								Potential as habitat for--			
	Grain and seed crops	Grasses and legumes	Wild herbaceous plants	Hardwood trees	Coniferous plants	Shrubs	Wetland plants	Shallow water areas	Openland wildlife	Woodland wildlife	Wetland wildlife	Rangeland wildlife
Bc---------- Boca	Poor	Fair	Fair	Poor	Poor	---	Good	Fair	Fair	Poor	Fair	Good.
Ch---------- Chobee	Poor	Poor	Poor	Fair	Poor	---	Good	Good	Poor	Poor	Good	---
Co---------- Copeland	Very poor.	Very poor.	Very poor.	Very poor.	Very poor.	---	Good	Good	Very poor.	Very poor.	Good	---
Ga---------- Gator	Very poor.	Very poor.	Very poor.	Fair	Very poor.	---	Good	Good	Very poor.	Poor	Good	---
Ha---------- Hallandale	Poor	Poor	Poor	Poor	Poor	---	Fair	Fair	Poor	Poor	Fair	---
Hs---------- Hallandale	Poor	Poor	Poor	Poor	Poor	---	Fair	Good	Poor	Poor	Fair	---
Ju---------- Jupiter	Poor	Poor	Poor	Poor	Poor	---	Good	Poor	Poor	Poor	Fair	---
La---------- Lauderhill	Very poor.	Very poor.	Very poor.	Fair	Very poor.	---	Good	Good	Very poor.	Poor	Good	---
Ma---------- Margate	Very poor.	Poor	Poor	Poor	Poor	---	Good	Good	Poor	Poor	Good	---

FL0054
MLRA(S): 155
REV. HFH, 9-82

SOIL INTERPRETATIONS RECORD

BOCA SERIES

ARENIC OCHRAQUALFS, LOAMY, SILICEOUS, HYPERTHERMIC

THE BOCA SERIES CONSISTS OF POORLY DRAINED SOILS THAT OCCUR IN LOW FLATWOODS AREAS IN THE LOWER COASTAL PLAIN. IN A REPRESENTATIVE PROFILE THE SURFACE LAYER IS DARK GRAY FINE SAND ABOUT 7 INCHES THICK. THE SUBSURFACE LAYER IS LIGHT GRAY AND VERY PALE BROWN FINE SAND. AT A DEPTH OF 25 TO 32 INCHES IS A GRAYISH BROWN SANDY CLAY LOAM SUBSOIL. SOFT LIMESTONE IS AT 34 INCHES. ABOVE THE LIMESTONE IS 2 INCHES OF MIXED ROCK, MARL, SAND AND SANDY CLAY LOAM. SLOPES ARE LESS THAN 2 PERCENT.

ESTIMATED SOIL PROPERTIES (A)

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRACT >3 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO. 4	10	40	200	LIQUID LIMIT	PLASTICITY INDEX
0-7	S, FS	SP, SP-SM	A-3, A-2-4	0	100	100	80-99	2-12	-	NP
7-25	S, FS	SP, SP-SM	A-3, A-2-4	0	100	100	80-99	2-12	-	NP
25-32	SL, SCL, FSL	SC	A-2-4, A-6, A-2-6	0	100	100	80-99	17-40	16-37	5-20
32-34	VAR			0						
34	UWB									

DEPTH (IN.)	CLAY (PCT)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	EROSION FACTORS T	WIND EROD. GROUP	ORGANIC MATTER (PCT)	CORROSIVITY STEEL	CORROSIVITY CONCRETE
0-7	<2	1.30-1.55	6.0-20	0.05-0.10	5.1-8.4	-	LOW	.10	5	2	1-3	HIGH	MODERATE
7-25	<2	1.50-1.60	6.0-20	0.02-0.05	5.1-8.4	-	LOW	.17					
25-32	14-30	1.55-1.65	0.6-2.0	0.10-0.15	5.1-8.4	-	LOW	.20					
32-34													
34													

FLOODING FREQUENCY	FLOODING DURATION	FLOODING MONTHS	HIGH WATER TABLE DEPTH (FT)	HIGH WATER TABLE KIND	HIGH WATER TABLE MONTHS	CEMENTED PAN DEPTH (IN)	CEMENTED PAN HARDNESS	BEDROCK DEPTH (IN)	BEDROCK HARDNESS	SUBSIDENCE INIT. (IN)	SUBSIDENCE TOTAL (IN)	WTD GRP	POTENTIAL FROST ACTION
NONE			0-1.0	APPARENT	JUN-FEB	-		24-40	SOFT	-		B/D	-

SANITARY FACILITIES (A)

SEPTIC TANK ABSORPTION FIELDS	SEVERE-DEPTH TO ROCK,WETNESS
SEWAGE LAGOON AREAS	SEVERE-SEEPAGE,DEPTH TO ROCK,WETNESS
SANITARY LANDFILL (TRENCH)	SEVERE-DEPTH TO ROCK,WETNESS,TOO SANDY
SANITARY LANDFILL (AREA)	SEVERE-AREA RECLAIM,SEEPAGE,TOO SANDY
DAILY COVER FOR LANDFILL	POOR-SEEPAGE,TOO SANDY,WETNESS

CONSTRUCTION MATERIAL (A)

ROADFILL	POOR-THIN LAYER,WETNESS
SAND	IMPROBABLE-THIN LAYER
GRAVEL	IMPROBABLE-TOO SANDY
TOPSOIL	POOR-TOO SANDY,WETNESS

WATER MANAGEMENT (A)

POND RESERVOIR AREA	SEVERE-SEEPAGE
EMBANKMENTS DIKES AND LEVEES	SEVERE-SEEPAGE,PIPING,WETNESS
EXCAVATED PONDS AQUIFER FED	MODERATE-DEPTH TO ROCK,CUTBANKS CAVE
DRAINAGE	DEPTH TO ROCK,CUTBANKS CAVE
IRRIGATION	WETNESS,DROUGHTY,FAST INTAKE
TERRACES AND DIVERSIONS	DEPTH TO ROCK,WETNESS,TOO SANDY
GRASSED WATERWAYS	WETNESS,DROUGHTY,DEPTH TO ROCK

BUILDING SITE DEVELOPMENT (A)

SHALLOW EXCAVATIONS	SEVERE-CUTBANKS CAVE,WETNESS
DWELLINGS WITHOUT BASEMENTS	SEVERE-WETNESS
DWELLINGS WITH BASEMENTS	SEVERE-WETNESS
SMALL COMMERCIAL BUILDINGS	SEVERE-WETNESS
LOCAL ROADS AND STREETS	SEVERE-WETNESS
LAWNS,LANDSCAPING AND GOLF FAIRWAYS	SEVERE-WETNESS,DROUGHTY

REGIONAL INTERPRETATIONS

RECREATIONAL DEVELOPMENT (A)

CAMP AREAS	SEVERE-WETNESS,TOO SANDY	PLAYGROUNDS	SEVERE-TOO SANDY,WETNESS
PICNIC AREAS	SEVERE-WETNESS,TOO SANDY	PATHS AND TRAILS	SEVERE-WETNESS,TOO SANDY

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS-DETERMINING PHASE	CAPABILITY	BEANS, SNAP (BU)		TOMATOES (TONS)		CORN, SWEET (TONS)		PEPPERS (BU)		ORANGES (BOXES)		GRAPEFRUIT (BOXES)		PASTURE (AUM)	
		NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	3W			120		16		3.75		800		375		575		8	

WOODLAND SUITABILITY (B)

CLASS-DETERMINING PHASE	ORD SYM	MANAGEMENT PROBLEMS					POTENTIAL PRODUCTIVITY		
		EROSION HAZARD	EQUIP. LIMIT	SEEDLING MORT'Y.	WINDTH. HAZARD	PLANT COMPET.	COMMON TREES	SITE INDX	TREES TO PLANT
ALL	2W	SLIGHT	MODERATE	MODERATE	SLIGHT	MODERATE	S FLORIDA SLASH PINE	55	S FLORIDA SLASH PINE

WINDBREAKS

CLASS-DETERMIN G PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (C)

CLASS-DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS							POTENTIAL AS HABITAT FOR:				
	GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
ALL	POOR	FAIR	FAIR	POOR	POOR	-	GOOD	FAIR	FAIR	POOR	FAIR	GOOD

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

COMMON PLANT NAME	PLANT SYMBOL (NLSPN)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE: ALL
CREEPING BLUESTEM	ANST	15
CHALKY BLUESTEM	ANCA4	10
HAIRY PANICUM	PARH	8
LOPSIDED INDIANGRASS	SOSE5	10
PINELAND THREEAWN	ARST5	15
PANICUM	PANIC	7
SAWPALMETTO 3/	SERE2	15
INKBERRY 3/	ILGL	5
CABBAGE PALM 3/	SAPA	10
OTHER HALF SHRUBS 3/	HBSS	5
POTENTIAL PRODUCTION (LBS./AC. DRY WT): FAVORABLE YEARS		
NORMAL YEARS		
UNFAVORABLE YEARS		

FOOTNOTES

A RATINGS BASED ON NSH GUIDE SHEETS, 3-31-78.
B SITE INDEX BASED ON SIMILAR SOILS IN FLORIDA.
C WILDLIFE RATINGS BASED ON SOILS MEMORANDUM-74, JAN. 1972.
1 FAIR SOURCE OF SHELL UNDERLIES THIN LAYER OF RIPPABLE ROCK.
2 SITE INDEX IS FOR AGE 25 YEARS.
3 NOT USUALLY UTILIZED BY LIVESTOCK; PRODUCTION DATA NOT AVAILABLE.

FL045@ SOIL INTERPRETATIONS RECORD

AREA(S): 155
REV. MCH. 1-86
TYPIC ARGIAQUOLLS, FINE-LOAMY, SILICEOUS, HYPERTHERMIC

CHOBEE SERIES
LIMESTONE SUBSTRATUM

THE CHOBEE SERIES CONSISTS OF VERY POORLY DRAINED SOILS THAT FORMED IN ALKALINE LOAMY MARINE SEDIMENTS ON THE LOWER COASTAL PLAIN. TYPICALLY THE SURFACE LAYER IS BLACK OR VERY DARK GRAY FINE SANDY LOAM ABOUT 22 INCHES THICK. THE SUBSOIL IS MOTTLED DARK GRAY GRADING TO GRAY SANDY CLAY LOAM TO A DEPTH OF ABOUT 50 INCHES. FRACTURED LIMESTONE IS AT A DEPTH OF ABOUT 50 INCHES. SLOPES RANGE FROM 0 TO 2 PERCENT.

ESTIMATED SOIL PROPERTIES (A)

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRACT >3 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO. 4	10	40	200	LIQUID LIMIT	PLASTICITY INDEX
0-22	SL, FSL	SP-SM, SM	A-2-4	0	100	95-100	85-99	12-25	<40	NP-10
22-50	SCL	SC	A-2-6, A-2-7, A-6	0	100	95-100	85-95	12-45	<45	10-25
50	UB									

DEPTH (IN.)	CLAY (PCT)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	T	WIND GROUP	ORGANIC MATTER (PCT)	CORROSIVITY STEEL	CORROSIVITY CONCRETE
0-22	7-20	1.45-1.53	2.0-6.0	0.10-0.15	5.6-7.3	-	LOW	0.15	5	3	2-15	MODERATE	LOW
22-50	20-35	1.50-1.70	0.06-0.2	0.12-0.17	6.1-8.4	-	MODERATE	0.32					
50													

FLOODING FREQUENCY	FLOODING DURATION	FLOODING MONTHS	HIGH WATER TABLE DEPTH (FT)	HIGH WATER TABLE KIND	HIGH WATER TABLE MONTHS	CEMENTED PAN DEPTH (IN)	CEMENTED PAN HARDNESS	BEDROCK DEPTH (IN)	BEDROCK HARDNESS	SUBSIDENCE INIT. (IN)	SUBSIDENCE TOTAL (IN)	HYDROLOGIC GROUP	POTENTIAL FROST ACTION
NONE			+2-0	APPARENT	JUN-MAR	-	-	40-79	SOFT	-	-	D	-

SANITARY FACILITIES (B)

SEPTIC TANK ABSORPTION FIELDS	SEVERE-PONDING, PERCS SLOWLY
SEWAGE LAGOON AREAS	SEVERE-PONDING
SANITARY LANDFILL (TRENCH)	SEVERE-DEPTH TO ROCK, PONDING
SANITARY LANDFILL (AREA)	SEVERE-PONDING
DAILY COVER FOR LANDFILL	POOR-PONDING

BUILDING SITE DEVELOPMENT (C)

SHALLOW EXCAVATIONS	SEVERE-PONDING
DWELLINGS WITHOUT BASEMENTS	SEVERE-PONDING
DWELLINGS WITH BASEMENTS	SEVERE-PONDING
SMALL COMMERCIAL BUILDINGS	SEVERE-PONDING
LOCAL ROADS AND STREETS	SEVERE-PONDING
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-PONDING

CONSTRUCTION MATERIAL (E)

ROADFILL	POOR-WETNESS
SAND	IMPROBABLE-EXCESS FINES
GRAVEL	IMPROBABLE-EXCESS FINES
TOPSOIL	POOR-WETNESS

WATER MANAGEMENT (G)

POND RESERVOIR AREA	MODERATE-DEPTH TO ROCK
EMBANKMENTS DIKES AND LEVEES	SEVERE-PONDING
EXCAVATED PONDS AQUIFER FED	SEVERE-SLOW REFILL, CUTBANKS CAVE
DRAINAGE	PONDING, PERCS SLOWLY
IRRIGATION	PONDING, PERCS SLOWLY
TERRACES AND DIVERSIONS	PONDING, PERCS SLOWLY
GRASSED WATERWAYS	WETNESS, PERCS SLOWLY

REGIONAL INTERPRETATIONS

LIMESTONE SUBSTRATUM

RECREATIONAL DEVELOPMENT

CAMP AREAS	SEVERE-PONDING	PLAYGROUNDS	SEVERE-PONDING
PICNIC AREAS	SEVERE-PONDING	PATHS AND TRAILS	SEVERE-PONDING

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT) (C)

CLASS-DETERMINING PHASE	CAPABILITY	BAHIAGRASS (AUM)				GRASS-CLOVER (AUM)									
		NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	7S														

WOODLAND SUITABILITY (C)

CLASS-DETERMINING PHASE	OPEN SYM	MANAGEMENT PROBLEMS: EROSION HAZARD	EQUIP. LIMIT	SEEDL. MORTALITY	WINDTH HAZARD	PLANT COMPET	POTENTIAL PRODUCTIVITY: COMMON TREES	SITE INDEX	PROD CLASS	TREES TO PLANT
ALL	9W	SLIGHT	SEVERE	SEVERE	MODER.	MODER.	PONDCYPRESS	75	2	7
							BALDCYPRESS	-	-	
							CABBAGE PALM	-	-	

WINDBREAKS

CLASS-DETERMINING PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (C)

CLASS-DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS: GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW AQUA	POTENTIAL AS HABITAT FOR: OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	SHAL AQUA
ALL	POOR	POOR	POOR	FAIR	POOR	-	GOOD	GOOD	POOR	POOR	GOOD	

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

COMMON PLANT NAME	PLANT SYMBOL (PLSYM)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE: ALL
MAIDENCANE	PAMA2	10
JAMAICA SEAGRASS	CLJA	
POTENTIAL PRODUCTION (LBS./AC. DRY WT):		
FAVORABLE YEARS		2500
NORMAL YEARS		1500
UNFAVORABLE YEARS		1000

FOOTNOTES

A ESTIMATED PROPERTIES BASED ON THOSE FOR SIMILAR SOILS IN FLORIDA.

2 RATINGS BASED ON USM SEC. 622, JULY 1983.

C YIELDS AND SUITABILITY DATA BASED ON THOSE FOR SIMILAR SOILS. RATINGS BASED ON NATIONAL FORESTRY MANUAL, SEC.

D PRODUCTION DATA NOT AVAILABLE.

1 NO RECOMMENDED TREES TO PLANT DUE TO SEVERE RATINGS FOR MANAGEMENT CONCERNS.

FL0215 SOIL INTERPRETATIONS RECORD

MLRA(S): 155
REV. AGH, 4-86
TYPIC ARGIAQUOLLS, FINE-LOAMY, SILICEOUS, HYPERTHERMIC

COPELAND SER
DEPRESSIO

COPELAND DEPRESSIONAL MUCKY SOILS ARE VERY POORLY DRAINED SOILS THAT OCCUR IN DEPRESSIONS IN PENINSULAR FLORIDA. TYPICALLY SURFACE LAYER IS BLACK FINE SAND 10 INCHES THICK. THE SUBSURFACE LAYER IS DARK GRAY FINE SAND 8 INCHES THICK. THE SUBSOIL IS GRAY SANDY CLAY LOAM 6 INCHES THICK. ~~BENEATH THE SUBSOIL IS 6 INCHES OF LIGHT GRAY MARL.~~ SOFT LIMESTONE IS BELOW A DEPTH OF 24 INCHES. SLOPES RANGE FROM 0 TO 2 PERCENT.

ESTIMATED SOIL PROPERTIES

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRACT >3 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO. 4	10	40	200	LIQUID LIMIT	PLASTICI INDE
0-10	FS, LS, LFS, ~~MK-FS~~	SP-SM, SM	A-3, A-2-4	0	100	100	80-100	5-15	-	NP
10-18	FS, LS, LFS	SP-SM, SM	A-3, A-2-4	0	100	100	80-100	5-15	-	NP
18-24	SL, FSL, SCL	SM-SC, SC	A-2-4, A-2-6	0	100	100	80-100	20-35	17-37	5-2
~~25-34~~	~~MARL~~	~~SM, SM-SC~~	~~A-2-4~~	~~0~~	~~75-95~~	~~70-85~~	~~65-80~~	~~20-35~~	~~<20~~	~~NP-7~~
24	WB									

DEPTH (IN.)	CLAY (PCT)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	EROSION FACTORS T	WIND EROD. GROUP	ORGANIC MATTER (PCT)	CORROSIVITY STEEL	CORROSIVITY CONCRE
0-12	2-12	1.30-1.50	6.0-20	0.10-0.15	6.1-7.3	-	LOW	.10	2	2	2-6	HIGH	LOW
12-17	2-10	1.35-1.55	6.0-20	0.05-0.10	6.1-7.3	-	LOW	.17					
17-25	15-30	1.55-1.70	0.6-2.0	0.10-0.15	7.4-8.4	-	LOW	.24					
~~25-34~~	~~10-18~~	~~1.55-1.70~~	~~0.6-2.0~~	~~0.05-0.10~~	~~7.4-8.4~~	~~-~~	~~LOW~~	~~.24~~					
24													

FLOODING FREQUENCY	FLOODING DURATION	FLOODING MONTHS	HIGH WATER TABLE DEPTH (FT)	HIGH WATER TABLE KIND	HIGH WATER TABLE MONTHS	CEMENTED PAN DEPTH (IN)	CEMENTED PAN HARDNESS	BEDROCK DEPTH (IN)	BEDROCK HARDNESS	SUBSIDENCE INIT. (IN)	SUBSIDENCE TOTAL (IN)	HYD GRP	POTENT FROST ACTIO
NONE			+2-1.0	APPARENT	JUL-APR	-		20-50	SOFT	-	-	D	-

SANITARY FACILITIES (A)

SEPTIC TANK ABSORPTION FIELDS	SEVERE-DEPTH TO ROCK,PONDING
SEWAGE LAGOON AREAS	SEVERE-SEEPAGE,DEPTH TO ROCK,PONDING
SANITARY LANDFILL (TRENCH)	SEVERE-DEPTH TO ROCK,SEEPAGE,PONDING
SANITARY LANDFILL (AREA)	SEVERE-DEPTH TO ROCK,SEEPAGE,PONDING
DAILY COVER FOR LANDFILL	POOR-DEPTH TO ROCK,PONDING

BUILDING SITE DEVELOPMENT (A)

SHALLOW EXCAVATIONS	SEVERE-PONDING
DWELLINGS WITHOUT BASEMENTS	SEVERE-PONDING
DWELLINGS WITH BASEMENTS	SEVERE-PONDING
SMALL COMMERCIAL BUILDINGS	SEVERE-PONDING
LOCAL ROADS AND STREETS	SEVERE-PONDING
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-PONDING

CONSTRUCTION MATERIAL (A)

ROADFILL	POOR-DEPTH TO ROCK,WETNESS
SAND	IMPROBABLE-EXCESS FINES
GRAVEL	IMPROBABLE-EXCESS FINES
TOPSOIL	LS,LFS: POOR-WETNESS FS: POOR-TOO SANDY,WETNESS

WATER MANAGEMENT (A)

POND RESERVOIR AREA	SEVERE-SEEPAGE
EMBANKMENTS DIKES AND LEVEES	SEVERE-THIN LAYER,PONDING
EXCAVATED PONDS AQUIFER FED	SEVERE-DEPTH TO ROCK,CUTBANKS CAVE
DRAINAGE	PONDING,DEPTH TO ROCK
IRRIGATION	PONDING,DROUGHTY,FAST INTAKE
TERRACES AND DIVERSIONS	DEPTH TO ROCK,PONDING,SOIL BLOWING
GRASSED WATERWAYS	WETNESS,DROUGHTY,DEPTH TO ROCK

REGIONAL INTERPRETATIONS

COPELAND SERIES
DEPRESSIONAL

FL026

RECREATIONAL DEVELOPMENT (A)

CAMP AREAS	FS: SEVERE-PONDING,TOO SANDY LS,LFS: SEVERE-PONDING	PLAYGROUNDS	FS: SEVERE-TOO SANDY,PONDING LS,LFS: SEVERE-PONDING
PICNIC AREAS	FS: SEVERE-PONDING,TOO SANDY LS,LFS: SEVERE-PONDING	PATHS AND TRAILS	FS: SEVERE-PONDING,TOO SANDY LS,LFS: SEVERE-PONDING

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS-DETERMINING PHASE	CAPABILITY															
	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	7W															

WOODLAND SUITABILITY (B)

CLASS-DETERMINING PHASE	ORD SYM	MANAGEMENT PROBLEMS: EROSION HAZARD	EQUIP. LIMIT	SEEDL. MORTY	WINDTH HAZARD	PLANT COMPET	POTENTIAL PRODUCTIVITY: COMMON TREES	SITE INDX	PROD CLAS	TREES TO PLANT
ALL	2W	SLIGHT	SEVERE	SEVERE	MODER.	SEVERE	SWAMP CYPRESS	75	2	7
							BALD CYPRESS	-	-	
							BLACKGUM	-	-	
							CABBAGE PALM	-	-	
							CAROLINA ASH	-	-	
							LOBLOLLYBAY GORDONIA	-	-	
							RED MAPLE	-	-	
							SWEETBAY	-	-	
							POND PINE	-	-	

WINDBREAKS

CLASS-DETERMING PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (C)

CLASS-DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS: GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	POTENTIAL AS HABITAT FOR: SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	WIL
ALL	V. POOR	V. POOR	V. POOR	V. POOR	V. POOR	-	GOOD	GOOD	V. POOR	V. POOR	GOOD	

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

COMMON PLANT NAME	PLANT SYMBOL (NLSPN)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE: ALL
MAIDENCANE	PAHE2	50
PERENNIAL GOOPERGRASS	AMPU2	10
CHALKY BLUESTEM	ANCAA	5
OTHER PERENNIAL GRASSLIKES	PPGL	5
SAND CORDGRASS	SPBA	T
BLUEJOINT PANICUM	PATE3	5
OTHER ANNUAL FORBS	AAFF	5

POTENTIAL PRODUCTION (LBS./AC. DRY WT):	
FAVORABLE YEARS	10000
NORMAL YEARS	7500
UNFAVORABLE YEARS	5000

FOOTNOTES

A RATINGS BASED ON NSH JULY 1983.
B RATINGS BASED ON NFM, SEC 537 AND SIMILAR SOILS.
C WILDLIFE RATINGS BASED ON SOILS MEMORANDUM-74, JAN.1972.
1 NO RECOMMENDED TREES TO PLANT DUE TO SEVERE RATINGS FOR MANAGEMENT CONCERN.

SOIL INTERPRETATIONS RECORD

MLRA(S): 156A
SHM, VGR, 10-86

GATOR MUCK
LIMESTONE SUBSTRATUM, DEPRESS

THESE ARE VERY POORLY DRAINED MUCK SOILS THAT OCCUR IN DEPRESSIONS. THEY FORMED IN DEPOSITS OF NONWOODY, FIBROUS, HYDROPHYTIC PLANT REMAINS AND LOAMY MARINE SEDIMENTS OVERLYING LIMESTONE. TYPICALLY THE SURFACE LAYER IS BLACK MUCK ABOUT 30 INCHES THICK. BELOW THIS IS A LAYER OF BLACK SANDY CLAY LOAM ABOUT 14 INCHES THICK. THIS IS UNDERLAIN BY LIMESTONE AT A DEPTH OF ABOUT 44 INCHES. SLOPES ARE LESS THAN 1 PERCENT.

ESTIMATED SOIL PROPERTIES

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRACT >3 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO. 4	10	40	200	LIQUID LIMIT	PL TI IN
0-30	MUCK	PT	A-8	0						
30-44	SCL	SM-SC, SC	A-2-4, A-2-6	0	100	100	80-99	25-35	<40	NP
44	WB									

DEPTH (IN.)	CLAY (PCT)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	T	WIND EROD. GROUP	ORGANIC MATTER (PCT)	CORROSIVITY STEEL	CONC
0-30	0-1	0.10-0.30	6.0-20	0.30-0.40	4.5-6.0	-	LOW	-	-	2	55-85	HIGH	HI
30-44	20-30	1.60-1.70	<0.2	0.10-0.15	6.1-8.4	-	LOW	.32			-		

FLOODING FREQUENCY	FLOODING DURATION	FLOODING MONTHS	HIGH WATER TABLE DEPTH (FT)	HIGH WATER TABLE KIND	HIGH WATER TABLE MONTHS	CEMENTED PAN DEPTH (IN)	CEMENTED PAN HARDNESS	BEDROCK DEPTH (IN)	BEDROCK HARDNESS	SUBSIDENCE INIT. (IN)	SUBSIDENCE TOTAL (IN)	HYD GRP	POTE FROS ACT
NONE			+2-1.0	APPARENT	JUN-DEC	-		40-59	HARD	5-10	18-24	E	-

SANITARY FACILITIES (A)

SEPTIC TANK ABSORPTION FIELDS	SEVERE-PONDING, PERCS SLOWLY, POOR FILTER
SEWAGE LAGOON AREAS	SEVERE-EXCESS HUMUS, PONDING, SEEPAGE
SANITARY LANDFILL (TRENCH)	SEVERE-DEPTH TO ROCK, PONDING, EXCESS HUMUS
SANITARY LANDFILL (AREA)	SEVERE-SEEPAGE, PONDING
DAILY COVER FOR LANDFILL	POOR-PONDING, EXCESS HUMUS

BUILDING SITE DEVELOPMENT (A)

SHALLOW EXCAVATIONS	SEVERE-CAVE, EXCESS HUMUS, PONDING
DWELLINGS WITHOUT BASEMENTS	SEVERE-SUBSIDES, PONDING, LOW STRENGTH
DWELLINGS WITH BASEMENTS	SEVERE-SUBSIDES, PONDING
SMALL COMMERCIAL BUILDINGS	SEVERE-SUBSIDES, PONDING, LOW STRENGTH
LOCAL ROADS AND STREETS	SEVERE-SUBSIDES, PONDING
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-PONDING, EXCESS HUMUS

CONSTRUCTION MATERIAL (A)

ROADFILL	POOR-WETNESS
SAND	IMPROBABLE-EXCESS HUMUS
GRAVEL	IMPROBABLE-EXCESS HUMUS
TOPSOIL	POOR-EXCESS HUMUS, WETNESS

WATER MANAGEMENT (A)

POND RESERVOIR AREA	SEVERE-SEEPAGE
EMBANKMENTS DIKES AND LEVEES	SEVERE-EXCESS HUMUS, PONDING
EXCAVATED PONDS AQUIFER FED	SEVERE-SLOW REFILL,
DRAINAGE	PERCS SLOWLY, SUBSIDES, PONDING
IRRIGATION	PONDING, SOIL BLOWING, PERCS SLOWLY
TERRACES AND DIVERSIONS	PONDING, SOIL BLOWING,
GRASSED WATERWAYS	WETNESS, PERCS SLOWLY

REGIONAL INTERPRETATIONS

-AIDP MUCK
LIMESTONE SUBSTRATUM, DEPRESSIONAL

RECREATIONAL DEVELOPMENT (A)

CAMP AREAS	SEVERE-PONDING, EXCESS HUMUS, PERCS SLOWLY	PLAYGROUNDS	SEVERE-EXCESS HUMUS, PONDING, PERCS SLOWLY
PICNIC AREAS	SEVERE-PONDING, EXCESS HUMUS, PERCS SLOWLY	PATHS AND TRAILS	SEVERE-PONDING, EXCESS HUMUS

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS-DETERMINING PHASE	CAPABILITY															
	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	7W															

WOODLAND SUITABILITY (B)

CLASS-DETERMINING PHASE	OPSD SYM	MANAGEMENT PROBLEMS: EROS HAZARD	EQUIP LIMIT	SEEDL MORTY	WINDTH HAZARD	PLANT COMPET	POTENTIAL PRODUCTIVITY: COMMON TREES	SITE INDX	PROD CLAS	TREES TO PLANT
ALL	4W	SLIGHT	SEVERE	SEVERE	SEVERE	SEVERE	BALDCYPRESS	100	6	1/

WINDBREAKS

CLASS-DETERMING PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (C)

CLASS-DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS: GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	POTENTIAL AS HABITAT FOR: SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
ALL	V. POOR	V. POOR	V. POOR	POOR	V. POOR	-	GOOD	GOOD	V. POOR	V. POOR	GOOD	-

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

COMMON PLANT NAME	PLANT SYMBOL (NLSPD)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE
JAMAICA SAWGRASS	CLJA	
COASTAL PLAIN WILLOW	SACA5	
ARROWHEAD	SAGIT	
PICKEREL WEED	POCO14	
POTENTIAL PRODUCTION (LBS./AC. DRY WT): FAVORABLE YEARS		
NORMAL YEARS		
UNFAVORABLE YEARS		

FOOTNOTES

A RATINGS BASED ON NSH 603, JULY 1983.
B RATINGS BASED ON FSM, PART 537 AND SIMILAR SOILS.
C WILDLIFE RATINGS BASED ON SOILS MEMORANDUM 74, JANUARY 1972.
1 NO RECOMMENDED TREES TO PLANT DUE TO SEVERE RATINGS FOR MANAGEMENT CONCERNS.

FL0065
MLRA(S): 155
REV. TEC 7-83

SOIL INTERPRETATIONS RECORD

BALLANDALE SERIES

LITHIC PSAMMAQUENTS, SILICEOUS, HYPERTHERMIC

THE BALLANDALE SERIES CONSISTS OF POORLY DRAINED SHALLOW SANDY SOILS. A REPRESENTATIVE PROFILE HAS A THIN BLACK SURFACE LAYER, A GRAYISH SUBSURFACE LAYER AND THIN DISCONTINUOUS BROWNISH OR YELLOWISH LAYERS IMMEDIATELY ABOVE HARD LIMESTONE BOULDERS AT ABOUT 16 INCHES. THE SOIL FORMED IN THIN BEDS OF SANDY MARINE SEDIMENTS. SLOPES ARE LESS THAN 2 PERCENT.

ESTIMATED SOIL PROPERTIES (A)

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRAC. >3 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO. 4	10	40	200	LIQUID LIMIT	PLASTICITY INDEX
0-4	FS, S	SP, SP-SM	A-3	0	100	100	90-100	2-6	-	NP
4-10	FS, S	SP, SP-SM	A-3	0	100	100	90-100	2-6	-	NP
10-14	FS, S	SP, SP-SM	A-3	0	100	100	90-100	2-6	-	NP
14-16	FS, S	SP, SP-SM	A-3	0	100	100	90-100	2-6	-	NP
16	WB									

DEPTH (IN.)	CLAY (PCT)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	EROSION FACTORS T	WIND EROD. GROUP	ORGANIC MATTER (PCT)	CORROSIVITY: STEEL	CORROSIVITY: CONCRETE
0-4	<3	1.35-1.45	6.0-20	0.05-0.11	5.1-6.5	-	LOW	.10	2	2	2-5	HIGH	LOW
4-10	<3	1.50-1.60	6.0-20	0.03-0.08	6.1-6.5	-	LOW	.10					
10-14	<3	1.50-1.60	0.6-6.0	0.03-0.08	5.6-8.4	-	LOW	.10					
14-16	<5	1.50-1.60	6.0-20	0.05-0.10	6.6-8.4	-	LOW	.10					
16													

FLOODING: FREQUENCY	FLOODING: DURATION	FLOODING: MONTHS	HIGH WATER TABLE: DEPTH (FT)	HIGH WATER TABLE: KIND	HIGH WATER TABLE: MONTHS	CEMENTED PAN: DEPTH (IN)	CEMENTED PAN: HARDNESS	BEDROCK: DEPTH (IN)	BEDROCK: HARDNESS	SUBSIDENCE: INIT. (IN)	SUBSIDENCE: TOTAL (IN)	HYDROPOTENT. GRP	HYDROPOTENT. FROST ACTION
NONE-RARE			0-1.0	APPARENT	JUN-NOV	-		7-20	SOFT	-		B/D	-

SANITARY FACILITIES (B)

SEPTIC TANK ABSORPTION FIELDS	SEVERE-DEPTH TO ROCK,WETNESS
SEWAGE LAGOON AREAS	NONE: SEVERE-SEEPAGE,DEPTH TO ROCK,WETNESS RARE: SEVERE-SEEPAGE,DEPTH TO ROCK,FLOODING
SANITARY LANDFILL (TRENCH)	SEVERE-DEPTH TO ROCK,SEEPAGE,WETNESS
SANITARY LANDFILL (AREA)	SEVERE-DEPTH TO ROCK,SEEPAGE,WETNESS
DAILY COVER FOR LANDFILL	POOR-AREA RECLAIM,SEEPAGE,TOO SANDY

CONSTRUCTION MATERIAL (B)

ROADFILL	POOR-AREA RECLAIM,THIN LAYER,WETNESS
SAND	IMPROBABLE-THIN LAYER
GRAVEL	IMPROBABLE-TOO SANDY
TOPSOIL	POOR-TOO SANDY,WETNESS,AREA RECLAIM

WATER MANAGEMENT (B)

POND RESERVOIR AREA	SEVERE-DEPTH TO ROCK
EMBANKMENTS DIKES AND LEVEES	SEVERE-SEEPAGE,PIPING,WETNESS
EXCAVATED PONDS AQUIFER FED	SEVERE-DEPTH TO ROCK,CUTBANKS CAVE
DRAINAGE	DEPTH TO ROCK,CUTBANKS CAVE
IRRIGATION	WETNESS,DROUGHTY,FAST INTAKE
TERRACES AND DIVERSIONS	DEPTH TO ROCK,WETNESS,TOO SANDY
GRASSED WATERWAYS	WETNESS,DROUGHTY,DEPTH TO ROCK

BUILDING SITE DEVELOPMENT (B)

SHALLOW EXCAVATIONS	SEVERE-WETNESS,DEPTH TO ROCK
DWELLINGS WITHOUT BASEMENTS	NONE: SEVERE-WETNESS RARE: SEVERE-FLOODING,WETNESS
DWELLINGS WITH BASEMENTS	NONE: SEVERE-WETNESS,DEPTH TO ROCK RARE: SEVERE-FLOODING,WETNESS,DEPTH TO ROCK
SMALL COMMERCIAL BUILDINGS	NONE: SEVERE-WETNESS RARE: SEVERE-FLOODING,WETNESS
LOCAL ROADS AND STREETS	SEVERE-WETNESS
LAWNS LANDSCAPING AND GOLF FAIRWAYS	SEVERE-WETNESS,DROUGHTY,THIN LAYER

REGIONAL INTERPRETATIONS

RECREATIONAL DEVELOPMENT (B)

CAMP AREAS	NONE: SEVERE-WETNESS,TOO SANDY RARE: SEVERE-FLOODING,WETNESS,TOO SANDY	PLAYGROUNDS	SEVERE-TOO SANDY,WETNESS,DEPTH TO ROCK
PICNIC AREAS	SEVERE-WETNESS,TOO SANDY,DEPTH TO ROCK	PATHS AND TRAILS	SEVERE-WETNESS,TOO SANDY

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS-DETERMINING PHASE	CAPA-BILITY	TOMATOES (TONS)		CABBAGE (CRATES)		ORANGES (BOXES)		GRAPEFRUIT (BOXES)		PASTURE (AUM)					
	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	4W		16		300		~~275~~ 25		~~500~~ 200		5.5					

WOODLAND SUITABILITY (C)

CLASS-DETERMINING PHASE	SYM	MANAGEMENT PROBLEMS					POTENTIAL PRODUCTIVITY		
		EROSION HAZARD	EQUIP. LIMIT	SEEDLING MORT'Y.	WINDTH. HAZARD	PLANT COMPET.	COMMON TREES	SITE INDX	TREES TO PLANT
ALL	4W	SLIGHT	MODERATE	MODERATE	MODERATE	MODERATE	S FLORIDA SLASH PINE	35	S FLORIDA SLASH PINE

WINDBREAKS

CLASS-DETERMIN G PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (D)

CLASS-DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS						POTENTIAL AS HABITAT FOR:					
	GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
ALL	POOR	POOR	POOR	POOR	POOR	-	FAIR	GOOD	POOR	POOR	FAIR	POOR

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION) (E)

COMMON PLANT NAME	PLANT SYMBOL (NLSPN)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE
FINELAND THREEAWN	ARST5	15
ROUNDSEED PANICUM	PASP2	10
PANICUM	PANIC	15
PERENNIAL GOOBERGRASS	AMMU2	10
CREEPING BLUESTEM	ANST	15
~~SAWPALMETTO~~	~~SERE2~~	25
TOOTHACHEGRASS	CTAR	10

POTENTIAL PRODUCTION (LBS./AC. DRY WT):	
FAVORABLE YEARS	
NORMAL YEARS	
UNFAVORABLE YEARS	

FOOTNOTES

A BEDROCK IS HARD BUT CAN BE EXCAVATED WITH POWER EQUIPMENT BECAUSE IT IS FRACTURED OR IS BOULDERS.
B RATINGS BASED ON NSH, PART II, SECTION 403, 3-78.
C SITE INDEX IS FOR AGE 25 YEARS.
D WILDLIFE RATINGS BASED ON SOILS MEMORANDUM-74, JAN. 1972.
E PRODUCTION DATA NOT AVAILABLE.

FL0388 SOIL INTERPRETATIONS RECORD

ALRA(S): 155, 156A, 156B
REV. WGH-AGP, 12-85
LITHIC PSAMMAQUENTS, SILICEOUS, HYPERTHERMIC

HALLANDALE SERI
SLOU

THE HALLANDALE, CONCAVE SOILS CONSIST OF SHALLOW, POORLY DRAINED, NEARLY LEVEL SOILS THAT OCCUR IN SLOUGHS. TYPICALLY, THE SURFACE LAYER IS DARK GRAYISH BROWN FINE SAND ABOUT 3 INCHES THICK. THE NEXT 5 INCHES IS VERY PALE BROWN FINE SAND BELOW 11 INCHES IS LIMESTONE BEDROCK. SLOPES RANGE FROM 0 TO 1 PERCENT.

ESTIMATED SOIL PROPERTIES

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRACT >3 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO. 4	10	40	200	LIQUID LIMIT	PLASTICITY INDEX
0-3	FS, S	SP-SM	A-3, A-2-4	0	100	100	100	5-12	-	NP
3-11	FS, S	SP-SM	A-3, A-2-4	0	100	100	100	5-12	-	NP
11	WB									

DEPTH (IN.)	CLAY (PCT)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	EROSION FACTORS T	WIND EROD. GROUP	ORGANIC MATTER (PCT)	CORROSIVITY STEEL	CORROSIVITY CONCRETE
0-3	1-2	1.20-1.60	6.0-20	0.02-0.05	6.1-7.3	-	LOW	.10	2	2	1-2	HIGH	LOW
3-11	2-3	1.45-1.55	6.0-20	0.05-0.09	6.6-7.8	-	LOW	.10					

FLOODING FREQUENCY	FLOODING DURATION	FLOODING MONTHS	HIGH WATER TABLE DEPTH (FT)	HIGH WATER TABLE KIND	HIGH WATER TABLE MONTHS	CEMENTED PAN DEPTH (IN)	CEMENTED PAN HARDNESS	BEDROCK DEPTH (IN)	BEDROCK HARDNESS	SUBSIDENCE INIT. (IN)	SUBSIDENCE TOTAL (IN)	HYD GRP	POTENTIAL FROST ACTION
NONE			0-1.0	APPARENT	JUN-OCT	-		2-20	SOFT	-	-	D	-

SANITARY FACILITIES (A)

SEPTIC TANK ABSORPTION FIELDS	SEVERE-DEPTH TO ROCK,WETNESS,POOR FILTER
SEWAGE LAGOON AREAS	SEVERE-DEPTH TO ROCK,WETNESS
SANITARY LANDFILL (TRENCH)	SEVERE-DEPTH TO ROCK,SEEPAGE,WETNESS
SANITARY LANDFILL (AREA)	SEVERE-DEPTH TO ROCK,SEEPAGE,WETNESS
DAILY COVER FOR LANDFILL	POOR-DEPTH TO ROCK,SEEPAGE,TOO SANDY

BUILDING SITE DEVELOPMENT (B)

SHALLOW EXCAVATIONS	SEVERE-DEPTH TO ROCK,WETNESS
DWELLINGS WITHOUT BASEMENTS	SEVERE-WETNESS
DWELLINGS WITH BASEMENTS	SEVERE-WETNESS,DEPTH TO ROCK
SMALL COMMERCIAL BUILDINGS	SEVERE-WETNESS
LOCAL ROADS AND STREETS	SEVERE-WETNESS
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-WETNESS,DROUGHTY,DEPTH TO ROCK

CONSTRUCTION MATERIAL (A)

ROADFILL	POOR-DEPTH TO ROCK,WETNESS
SAND	IMPROBABLE-THIN LAYER
GRAVEL	IMPROBABLE-TOO SANDY,THIN LAYER
TOPSOIL	POOR-DEPTH TO ROCK,TOO SANDY,WETNESS

WATER MANAGEMENT (A)

POND RESERVOIR AREA	SEVERE-SEEPAGE,DEPTH TO ROCK
EMBANKMENTS, DIKES AND LEVEES	SEVERE-SEEPAGE,WETNESS
EXCAVATED PONDS AQUIFER FED	SEVERE-DEPTH TO ROCK,CUTBANKS CAVE
DRAINAGE	DEPTH TO ROCK,CUTBANKS CAVE
IRRIGATION	WETNESS,DROUGHTY,DEPTH TO ROCK
TERRACES AND DIVERSIONS	DEPTH TO ROCK,WETNESS,TOO SANDY
GRASSED WATERWAYS	WETNESS,DEPTH TO ROCK,DROUGHTY

REGIONAL INTERPRETATIONS

RECREATIONAL DEVELOPMENT (A)

CAMP AREAS	SEVERE-WETNESS,TOO SANDY,DEPTH TO ROCK	PLAYGROUNDS	SEVERE-TOO SANDY,WETNESS,DEPTH TO ROCK
PICNIC AREAS	SEVERE-WETNESS,TOO SANDY,DEPTH TO ROCK	PATHS AND TRAILS	SEVERE-WETNESS,TOO SANDY

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS-DETERMINING PHASE	CAPABILITY															
		IRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	IV																

WOODLAND SUITABILITY (B)

CLASS-DETERMINING PHASE	SYM	MANAGEMENT PROBLEMS					POTENTIAL PRODUCTIVITY			TREES TO PLANT
		EROS HAZARD	EQUIP LIMIT	SEEDL MORTY	WINDTH HAZARD	PLANT COMPET	COMMON TREES	SITE INDX	POD CLAS	
ALL	7S	SLIGHT	SEVERE	SEVERE	MODER.	SEVERE	S FLORIDA SLASH PINE	35	3	S FLORIDA SLASH PINE 1/ SLASH PINE

WINDBREAKS

CLASS-DETERMINING PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (C)

CLASS-DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS						POTENTIAL AS HABITAT FOR				
	GRAIN & SEED	GRASS LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
ALL	POOR	POOR	POOR	POOR	POOR	-	FAIR	FAIR	POOR	POOR	FAIR	

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

COMMON PLANT NAME	PLANT SYMBOL (NRCS)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE: ALL
BLUE MAIDENCANE	AMMU2	50
CHALKY BLUESTEM	ANCA4	10
OTHER PERENNIAL GRASSLIKES	PPGL	5
BLUEJOINT PANICUM	PAIE2	5
CANE COCKSPUR	SPBA	3
SWITCHGRASS	PAVI2	5
OTHER ANNUAL FORBS	AAFF	5
POTENTIAL PRODUCTION (LBS./AC. DRY WT):		
FAVORABLE YEARS		9000
NORMAL YEARS		6500
UNFAVORABLE YEARS		4000

FOOTNOTES

- DURING PERIODS OF HIGH RAINFALL, THE SOIL IS COVERED BY A SLOWLY MOVING LAYER OF WATER FOR ABOUT 7 TO 30 DAYS.
- RATINGS BASED ON NSH, 6CJ, JULY 1983.
- RATINGS BASED ON NFM, SEC. 557 AND ON SIMILAR SOILS.
- WILDLIFE RATINGS BASED ON SOILS MEMORANDUM-74, JAN 1972.

TREE PLANTING PRACTICE ONLY ON AREAS WITH ADEQUATE WATER CONTROL. SOUTH FLORIDA SLASH PINE USED ONLY IN SOUTHERN MOS

FL0053
MLRA(S): 155, 156A, 156B
REV. HFH, 12-80

SOIL INTERPRETATIONS RECORD

JUPITER SERIES

TYPIC HAPLAQUOLLS, SANDY, SILICEOUS, HYPERTHERMIC
THE JUPITER SERIES CONSISTS OF POORLY DRAINED SHALLOW SANDY SOILS OVER FRACTURED LIMESTONE. IN A REPRESENTATIVE PROFILE THE SURFACE LAYER IS BLACK FINE SAND ABOUT 11 INCHES THICK. NEXT IS 3 INCHES OF LIGHT GRAY FINE SAND THAT OVERLIES HARD LIMESTONE AT A DEPTH OF 14 INCHES. SOLUTION HOLES ARE IN THE LIMESTONE. THESE SOILS OCCUR ON BROAD LOW FLATS AND LOW HAMMOCKS. SLOPES ARE LESS THAN 1 PERCENT.

ESTIMATED SOIL PROPERTIES

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRACT >3 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO. 4	10	40	200	LIQUID LIMIT	PLASTICITY INDEX
0-11	S, FS	SP-SM	A-3, A-2-4	0	100	100	85-95	5-12	<40	NP
11-14	S, FS	SP, SP-SM	A-3	0	100	100	85-95	2-5	<40	NP
14	WB									

DEPTH (IN.)	CLAY (PCT)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	EROSION FACTORS T	WIND EROD. GROUP	ORGANIC MATTER (PCT)	CORROSIVITY STEEL	CORROSIVITY CONCRETE
0-11	2-8	1.35-1.50	6.0-20	0.12-0.18	6.1-8.4	-	LOW	.10	2	2	1-3	HIGH	LOW
11-14	1-3	1.50-1.65	6.0-20	0.02-0.08	6.1-8.4	-	LOW	.17					
14													

FLOODING FREQUENCY	FLOODING DURATION	FLOODING MONTHS	HIGH WATER TABLE DEPTH (FT)	HIGH WATER TABLE KIND	HIGH WATER TABLE MONTHS	CEMENTED PAN DEPTH (IN)	CEMENTED PAN HARDNESS	BEDROCK DEPTH (IN)	BEDROCK HARDNESS	SUBSIDENCE INIT. (IN)	SUBSIDENCE TOTAL (IN)	HYD GRP	POTENTIAL FROST ACTION
NONE			0-1.0	APPARENT	JUN-NOV	-		8-20	SOFT	-	-	B/D	-

SANITARY FACILITIES (A)

SEPTIC TANK ABSORPTION FIELDS	SEVERE-DEPTH TO ROCK,WETNESS
SEWAGE LAGOON AREAS	SEVERE-SEEPAGE,DEPTH TO ROCK,WETNESS
SANITARY LANDFILL (TRENCH)	SEVERE-DEPTH TO ROCK,SEEPAGE,WETNESS
SANITARY LANDFILL (AREA)	SEVERE-DEPTH TO ROCK,SEEPAGE,WETNESS
DAILY COVER FOR LANDFILL	POOR-AREA RECLAIM,SEEPAGE,TOO SANDY

CONSTRUCTION MATERIAL (A)

ROADFILL	POOR-AREA RECLAIM,WETNESS
SAND	IMPROBABLE-THIN LAYER
GRAVEL	IMPROBABLE-TOO SANDY
TOPSOIL	POOR-AREA RECLAIM,TOO SANDY,WETNESS

WATER MANAGEMENT (A)

POND RESERVOIR AREA	SEVERE-DEPTH TO ROCK
EMBANKMENTS DIKES AND LEVEES	SEVERE-SEEPAGE,PIPING,WETNESS
EXCAVATED PONDS AQUIFER FED	SEVERE-DEPTH TO ROCK,CUTBANKS CAVE
DRAINAGE	DEPTH TO ROCK,CUTBANKS CAVE
IRRIGATION	WETNESS,DROUGHTY,FAST INTAKE
TERRACES AND DIVERSIONS	DEPTH TO ROCK,WETNESS,TOO SANDY
GRASSED WATERWAYS	WETNESS,DROUGHTY,DEPTH TO ROCK

BUILDING SITE DEVELOPMENT (A)

SHALLOW EXCAVATIONS	SEVERE-DEPTH TO ROCK,WETNESS
DWELLINGS WITHOUT BASEMENTS	SEVERE-WETNESS
DWELLINGS WITH BASEMENTS	SEVERE-WETNESS,DEPTH TO ROCK
SMALL COMMERCIAL BUILDINGS	SEVERE-WETNESS
LOCAL ROADS AND STREETS	SEVERE-WETNESS
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-WETNESS,THIN LAYER

REGIONAL INTERPRETATIONS

RECREATIONAL DEVELOPMENT (A)

CAMP AREAS	SEVERE-WETNESS,TOO SANDY,DEPTH TO ROCK	PLAYGROUNDS	SEVERE-TOO SANDY,WETNESS,DEPTH TO ROCK
PICNIC AREAS	SEVERE-WETNESS,TOO SANDY,DEPTH TO ROCK	PATHS AND TRAILS	SEVERE-WENESS,TOO SANDY

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS-DETERMINING PHASE	CAPA-BILITY	TOMATOES (TONS)		CABBAGE (CRATES)		ORANGES (BOXES)		GRAPEFRUIT (BOXES)		PASTURE (AUM)					
		NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	4W		16		300		375		500		5.5				

WOODLAND SUITABILITY (C)

CLASS-DETERMINING PHASE	ORD SYM	MANAGEMENT PROBLEMS					POTENTIAL PRODUCTIVITY		
		EROSION HAZARD	EQUIP. LIMIT	SEEDLING MORT'Y.	WINDTH. HAZARD	PLANT COMPET.	COMMON TREES	SITE INDX	TREES TO PLANT
ALL	4WD	SLIGHT	SEVERE	MODERATE	MODERATE	MODERATE	S FLORIDA SLASH PINE	35	S FLORIDA SLASH PINE

WINDBREAKS

CLASS-DETERMIN G PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (B)

CLASS-DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS							POTENTIAL AS HABITAT FOR:				
	GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
ALL	POOR	POOR	POOR	POOR	POOR	-	GOOD	POOR	POOR	POOR	FAIR	-

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

COMMON PLANT NAME	PLANT SYMBOL (NISPN)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE: ALL
FINELAND THREEAWN	ARST5	
CREEPING BLUESTEM	ANST	
CHALKY BLUESTEM	ANCA4	
SAND CORDGRASS	SPBA	
BALDCYPRESS	TADI2	
CABBAGE PALM	SAPA	
OTHER PERENNIAL GRASSES	PPGG	
OTHER PERENNIAL FORBS	PPFF	
POTENTIAL PRODUCTION (LBS./AC. DRY WT): FAVORABLE YEARS		
NORMAL YEARS		
UNFAVORABLE YEARS		

FOOTNOTES

A RATINGS BASED ON NSH, PART II, SECTION 403.
B WILDLIFE RATINGS BASED ON SOILS MEMORANDUM-74,JAN.1972.
C SITE INDEX IS FOR AGE 25 YEARS.

FL0069
MLRA(S): 156A, 156B
REV. AGH, 3-83

SOIL INTERPRETATIONS RECORD

LADDERHILL SERIES

LITHIC MEDISAPRISTS, EUIC, HYPERTHERMIC

THE LAUDERHILL SERIES CONSISTS OF VERY POORLY DRAINED ORGANIC SOILS THAT OCCUR IN THE EVERGLADES OF SOUTH FLORIDA. IN A REPRESENTATIVE PROFILE LAYERS OF WELL DECOMPOSED BLACK AND DARK REDDISH BROWN MUCK EXTEND TO A DEPTH OF ABOUT 31 INCHES. LIMESTONE, WITH NUMEROUS SOLUTION HOLES, OCCURS AT THIS DEPTH. THESE SOILS FORMED IN HYDROPHYTIC PLANT REMAINS. SLOPES RANGE FROM 0 TO 2 PERCENT.

ESTIMATED SOIL PROPERTIES

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRACT >3 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO. 4	10	40	200	LIQUID LIMIT	PLASTICITY INDEX
0-31	MUCK	PT		0						
31	UWB									

DEPTH (IN.)	CLAY (PCT)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	EROSION FACTORS T	WIND EROD. GROUP	ORGANIC MATTER (PCT)	CORROSIVITY: STEEL	CORROSIVITY: CONCRETE
0-31	-	0.15-0.35	6.0-20	0.20-0.30	5.6-7.8	-	LOW	-	2	2	>60	HIGH	MODERATE
31													

FLOODING: FREQUENCY	FLOODING: DURATION	FLOODING: MONTHS	HIGH WATER TABLE: DEPTH (FT)	HIGH WATER TABLE: KIND	HIGH WATER TABLE: MONTHS	CEMENTED PAN: DEPTH (IN)	CEMENTED PAN: HARDNESS	BEDROCK: DEPTH (IN)	BEDROCK: HARDNESS	SUBSIDENCE: INIT. (IN)	SUBSIDENCE: TOTAL (IN)	HYD GRP	POTENTIAL FROST ACTION
NONE			+1-1.0	APPARENT	JUN-FEB	-		20-40	SOFT	4-8	16-36	B/D	-

SANITARY FACILITIES (A)

SEPTIC TANK ABSORPTION FIELDS	SEVERE-DEPTH TO ROCK,PONDING,POOR FILTER
SEWAGE LAGOON AREAS	SEVERE-SEEPAGE,DEPTH TO ROCK,EXCESS HUMUS
SANITARY LANDFILL (TRENCH)	SEVERE-DEPTH TO ROCK,SEEPAGE,PONDING
SANITARY LANDFILL (AREA)	SEVERE-DEPTH TO ROCK,SEEPAGE,PONDING
DAILY COVER FOR LANDFILL	POOR-AREA RECLAIM,PONDING,EXCESS HUMUS

BUILDING SITE DEVELOPMENT (A)

SHALLOW EXCAVATIONS	SEVERE-EXCESS HUMUS,PONDING
DWELLINGS WITHOUT BASEMENTS	SEVERE-PONDING,LOW STRENGTH
DWELLINGS WITH BASEMENTS	SEVERE-PONDING
SMALL COMMERCIAL BUILDINGS	SEVERE-PONDING,LOW STRENGTH
LOCAL ROADS AND STREETS	SEVERE-PONDING
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-PONDING,EXCESS HUMUS

CONSTRUCTION MATERIAL (A)

ROADFILL	POOR-AREA RECLAIM,WETNESS
SAND	IMPROBABLE-EXCESS FINES
GRAVEL	IMPROBABLE-EXCESS FINES
TOPSOIL	POOR-EXCESS HUMUS,WETNESS

WATER MANAGEMENT (A)

POND RESERVOIR AREA	SEVERE-SEEPAGE
EMBANKMENTS DIKES AND LEVEES	SEVERE-EXCESS HUMUS,PONDING
EXCAVATED PONDS AQUIFER FED	SEVERE-DEPTH TO ROCK
DRAINAGE	PONDING,DEPTH TO ROCK,SUBSIDES
IRRIGATION	PONDING,SOIL BLOWING,DEPTH TO ROCK
TERRACES AND DIVERSIONS	DEPTH TO ROCK,PONDING,SOIL BLOWING
GRASSED WATERWAYS	WETNESS,DEPTH TO ROCK

REGIONAL INTERPRETATIONS

RECREATIONAL DEVELOPMENT (A)

CAMP AREAS	SEVERE-PONDING,EXCESS HUMUS	PLAYGROUNDS	SEVERE-EXCESS HUMUS,PONDING
PICNIC AREAS	SEVERE-PONDING,EXCESS HUMUS	PATHS AND TRAILS	SEVERE-PONDING,EXCESS HUMUS

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS-DETERMINING PHASE	CAPA-BILITY	SUGARCANE (TONS)		CORN, SWEET (TONS)		CELERY (CRATES)		LETTUCE (CRATES)		CABBAGE (CRATES)		PASTURE (AUM)			
		NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	3W		40		4.5		800		300		340		15		

WOODLAND SUITABILITY (B)

CLASS-DETERMINING PHASE	ORD SYM	MANAGEMENT PROBLEMS					POTENTIAL PRODUCTIVITY		
		EROSION HAZARD	EQUIP. LIMIT	SEEDLING MORT'Y.	WINDTH. HAZARD	PLANT COMPET.	COMMON TREES	SITE INDX	TREES TO PLANT
							NONE		

WINDBREAKS

CLASS-DETERMIN G PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (C)

CLASS-DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS								POTENTIAL AS HABITAT FOR:			
	GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
ALL	V. POOR	POOR	POOR	V. POOR	V. POOR	-	GOOD	GOOD	POOR	V. POOR	GOOD	-

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION) (D)

COMMON PLANT NAME	PLANT SYMBOL (NLSPN)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE				
JAMAICA SAWGRASS	CLJA					
MAIDENCANE	PAHE2					
CUTTHROAT GRASS	PAAB					
SOUTHERN WILDRICE	ZIMI					
POTENTIAL PRODUCTION (LBS./AC. DRY WT):						
FAVORABLE YEARS						
NORMAL YEARS						
UNFAVORABLE YEARS						

FOOTNOTES

A RATINGS BASED ON NSH, PART II, SECTION 403. "SOFT" BEDROCK REFERS TO ROCK THAT CAN BE EXCAVATED WITH NORMAL
B NOT USED FOR PINE TREE PRODUCTION.
C WILDLIFE RATINGS BASED ON SOILS MEMORANDUM-74, JAN. 1972.
D PRODUCTION DATA NOT AVAILABLE.

CLIMATOLOGICAL DATA

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

FLORIDA

ANNUAL SUMMARY 1974
Volume 78 No 13

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

Table 3

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
* * *																										
NORTHWEST 01																										
APALACHICOLA WSO CI	65.6	11.9	56.9	1.1	65.5	4.8	67.9	+ .6	78.2	1.3	79.6	- .4	81.1	+ .3	81.1	- .4	79.7	1.1	68.7	+ 2.1	62.1	1.0	55.7	- .5	70.0	1.5
BLOUNTSTOWN	66.1	14.7	53.6	- .5	63.4	3.8	65.4	- 2.5	74.6	.0	77.6	- 2.3	80.4	- .7	79.9	+ 1.2	78.0	.9	64.8	+ 3.8	58.1	- .2	52.8	+ .7	67.9	.7
CARRABELLE 1 NNW	65.8	12.5	-		-		67.2M	- .4	74.2M	.1	-		80.1	+ .8	-		-		-		-		-		-	
CHIPLEY 3 E	65.1	12.1	52.7	- 2.7	62.8	2.2	65.5	- 2.7	74.1	- .9	77.6	- 2.0	80.9	.0	79.6	- 1.2	78.8	- .8	63.3	+ 3.4	55.5	- 3.5	51.7	- 2.0	67.1	- .6
DE FUNIAK SPRINGS	65.2	12.9	54.6	- .4	65.1	4.7	65.3	- 3.5	74.7	- .5	77.4	- 2.8	80.4M	- 1.0	79.2	+ 2.1	76.9	- .6	63.2	+ 3.7	56.7M	+ 2.1	53.6	+ .4	67.7M	+ .1
FOUNTAIN 3 SSE	66.2M		53.9		64.2		65.1		74.0		77.1M		78.5M		77.4M		M		M		58.3M		54.2M		-	
MILTON EXP STATION	65.0		55.4		65.1		66.8		75.4		78.6		81.9		79.7		76.8		65.8		58.4		55.5		68.7	
MONTICELLO 3 N	65.2	12.5	53.1	- 1.7	62.0	1.6	64.2	+ 3.8	73.3	- 1.2	76.6	- 2.8	78.9	+ 1.7	78.8	+ 1.7	76.9	- .3	62.9	+ 6.0	57.4	+ 1.8	51.9	- 1.4	66.8	+ .7
NICEVILLE	63.1	12.7	52.3	- .4	62.6M	4.8	64.1M	+ 2.0	73.7M	.7	77.9	- 1.0	80.5M	+ .2	79.4	+ 1.3	77.5	.5	63.0	+ 5.1	57.6M	+ .2	51.8M	.1	67.0M	.7
PANAMA CITY 9 NE	65.3		53.4		63.2		65.2		74.4		77.7		80.9		79.7		78.4		65.7		58.8M		52.8M		68.0M	
PENSACOLA WSO AP	65.7	13.6	55.8	1.0	66.7	6.8	67.8	- .3	77.3	2.1	79.4	- 1.2	82.4	+ .6	81.1	- .7	78.4	.1	68.2	+ 1.8	60.4	+ .9	56.5	2.7	70.0	2.0
QUincy 3 SSW	65.9	13.1	53.4M	- 1.6	63.2	3.0	65.4	- 2.2	74.1	.0	78.9	- 2.2	79.6	- .5	79.1	- 1.1	77.3	.2	65.8	+ 3.6	59.5	+ .1	53.6	+ .2	67.8M	.5
ST MARKS 5 SSE	63.8	10.6	54.3	- 1.1	64.0	3.3	66.8M	- 1.5	75.2	.2	78.3	- 1.9	79.8	+ 1.7	80.3	+ 1.4	79.1	.3	66.9M	+ 3.9	60.0M	- .3	53.5	- .8	68.5M	
SMITH CREEK	65.8		54.6		64.2		64.3		72.8M		76.3		77.7		78.0M		76.6		63.8		57.3		53.0		67.0M	
TALLAHASSEE WSO AP	66.6	14.0	53.7	- 1.1	64.2	3.9	64.9	- 3.0	74.5	- .3	77.9	- 2.1	80.3	- .8	80.6	- .5	78.8	.7	64.9	+ 4.4	56.7	+ 2.2	52.3	- .9	68.0	.3
WEWAHITCHKA	66.8		54.6		64.4		66.5		74.5		78.1		80.1		79.8		78.1		65.8		59.9		54.0		68.6	
WOODRUFF DAM	65.9		55.1		64.2		66.8		74.7		78.6		81.1		80.5		78.6		65.9		58.8		53.2		68.6	
DIVISION	65.4	12.9	54.2	- .7	64.1	3.9	65.8	- 2.1	74.6	.1	77.9	- 1.8	80.2	- .8	79.7	- 1.4	77.8	.0	65.2	+ 4.1	58.5	- .8	53.5	- .1	68.1	.4
* * *																										
NORTH 02																										
CEDAR KEY 1 WSW	68.4	11.5	58.8	- .3	66.8	3.2	70.1	- 1.0	78.0	.7	80.2	- 1.5	82.2	- .2	82.8	.2	82.1	1.2	70.5	+ 3.2	64.9	.0	56.5M	- 2.0	71.8M	.8
CROSS CITY 2 WNW	66.0M	11.6	54.7	- 1.5	64.4	2.8	66.7	- 1.8	73.7	- 1.0	77.5	- 2.0	-		M		78.7M	- .2	66.0M	+ 4.8	59.6M	- 1.5	51.3M	+ 3.9	-	
FEDERAL POINT	M		58.7M		66.8M		69.4M		75.8M		78.6M		78.8M		M		78.7M		69.4M		62.8M		56.4M		-	
FERNANDINA BEACH	M		56.1M	- .8	64.8	2.9	66.6	- 2.4	74.9	- .3	77.8	- 2.1	79.2	- 2.4	79.5	- 2.2	78.0	- 1.0	67.8	+ 3.8	60.5	+ 2.3	53.1	- 1.1	-	
GAINESVILLE 2 WSW	69.5	12.5	59.7	.7	67.5	3.9	69.1	+ .9	76.8	1.0	79.1	- .9	79.8	- 1.5	80.7	- .5	80.4	1.3	69.3	+ 2.5	63.2	- .1	57.7	- .1	71.0	1.1
GLEN ST MARY 1 W	-		57.9M	1.0	-		-		M		-		-		80.4M	- .2	78.5M	.7	65.2M	+ 4.4	M		53.1M	+ 1.6	-	
HIGH SPRINGS	-		-		-		-		-		-		79.0M		79.9		78.3M		67.7M		61.1M		56.1		-	
JACKSONVILLE WSO AP	66.7	12.1	55.3	+ .8	65.2	4.0	66.1	- 2.0	74.3	.0	77.5	- 1.7	79.0	+ 2.0	79.9	+ 1.1	78.2	.0	66.2	+ 4.3	60.3	- .9	55.0	- .4	68.7	.3
JACKSONVILLE BEACH	67.2		58.4M		65.8		69.0		76.0		78.3		79.9		80.1M		80.1M		70.2		63.7		57.6M		70.5M	
JASPER	65.9		54.3		62.8		64.2		73.5		77.3		78.6		79.5		77.9		65.5		58.2		52.1		67.5	
LAKE CITY 2 E	66.2	11.3	55.2	- 1.5	63.2	1.2	66.0	- 2.9	74.7	- .3	77.1	- 2.4	79.2	- 1.6	79.8	- 1.1	78.5	.5	66.8	+ 3.4	60.6	- .2	54.2	- 1.8	68.5	- .2
LIVE OAK	69.0		57.3		65.8		67.4		75.5		78.3		80.3		80.9		79.4		67.4M		61.4		55.8		69.9M	
MADISON	66.4	12.5	-		66.2M	4.8	-		-		77.6M	- 2.7	M		83.8M	2.5	80.8	2.9	69.3M	+ .4	61.7M	1.5	54.4M	.0	-	
MAYO	66.9M		55.2		64.6		65.7		74.9M		77.0		79.1		79.8		78.5		65.4		59.0		53.3		68.3M	
PALATKA	70.4	12.2	61.1	1.1	68.6	3.7	70.1	- 1.2	77.9	.2	79.8	- 1.5	80.4	- 2.3	80.8	- 1.8	80.0	- .2	69.0	+ 4.2	64.6	- .1	58.4	- .8	71.7	.4
PERRY	66.9		56.6		65.1		66.7		75.0		78.0		80.0		80.4		79.7		67.7		61.2		55.1		69.6	
ST AUGUSTINE WFOY	68.7		60.0		66.5		69.4		75.2M		77.3		78.9		79.7		80.9		70.3		64.8		58.9		70.9M	
STARKE	68.7M		58.1		65.5		67.0		74.8M		77.4		78.9		79.6		78.6		67.8		61.7		56.8		69.5M	
STEINHATCHEE 6 ENE	66.9		55.7		65.3		66.0		75.1M		78.2M		M		M		79.5M		67.6		59.5M		55.0M		-	
USHER TOWER	67.9		57.4		66.1		67.0		75.2		77.1		79.9		80.8		80.2		68.0		62.0		56.7		69.8	
DIVISION	67.6	12.0	57.2	- .2	65.6	3.1	67.4	- 1.8	75.9	.1	78.0	- 1.8	79.5	- 1.7	80.5	- .8	79.6	.6	67.8	+ 3.3	61.8	- .6	55.5	+ .9	69.6	.4
* * *																										
NORTH CENTRAL 03																										
ALEXANDER SPRINGS 3 SE	M		-		-		-		-		78.6M		79.4		80.2		80.5		69.2		63.3		57.2		-	
BROOKSVILLE CHEN HILL	71.3	11.1	61.7	.1	71.3M	5.2	71.1M	- .6	76.2M	- .4	79.1M	- 1.1	79.3	- 1.5	80.8	- .2	80.6	1.0	71.5M	+ 2.2	67.5M	1.5	61.2	+ .1	72.6M	1.0
BUSHNELL 2 E	69.9	10.9	61.2	.5	69.9	4.6	69.6	- 1.3	76.3M	.4	78.5	- 1.4	79.4	- 1.6	81.0	- .2	80.8	+ .2	70.6	+ 2.4	65.5	.7	60.2	.3	71.9M	1.0
CLERMONT 6 SSW	68.5	9.5	61.0	.1	70.9	4.6	71.5	- .7	77.5	.2	79.2	- 1.7	80.2	- 1.5	81.7	- .5	81.8	1.3	72.2	+ 2.1	66.5	.2	60.1	- .8	72.7	.7
DAYTONA BEACH WSO AP	69.5	11.1	59.5	- .1	68.5	4.6	69.3	- .4	76.0	1.0	78.6	- .8	79.2	- 1.8	80.3	- .8	80.5	1.0	72.0	+ 1.3	66.5	.4	59.5	- .1	71.5	1.0
DELAND 1 SSE	68.4	9.6	57.2M	- 3.0	67.1	2.1	M		74.8	- 1.1	78.6	- 1.4	78.8M	- 2.7	81.1M	- .5	80.3	.8	68.8	+ 4.2	63.6M	+ 1.3	57.8M	+ 1.9	-	
INVERNESS	70.3	11.0	59.4		69.2		70.2		77.4		80.1		80.9		81.8		81.8		71.0		65.2		58.8		72.2	
LISBON	70.6		61.9		70.3		71.1		77.2		79.3		79.7		81.1		81.5		71.5		66.5		60.1		72.6	
OCALA	70.0		59.6		68.7		69.2		76.8		79.4		79.8		80.8		80.9		-		64.3M		58.1		-	
ORLANDO WSO MCCOY	-		60.5	- 1.0	70.2	4.3	71.4	- .1	78.0	1.0	80.3	- .1	80.7	- .7	82.0	.2	81.5	1.7	72.6	+ 1.7	67.6	1.0	60.9	- .6	-	
ORLANDO WSC AP	71.6	11.2	-		-		-		-		-		-		-		-		-		-		-		-	
SAINT LEO	-		62.0	.0	71.1	4.6	70.8	- 1.6	76.7	- .6	78.5	- 2.3	79.6	- 2.1	81.1	- .9	80.5	.1	71.6	+ 2.6	67.1	.5	61.0	- .7	-	
SANFORD EXP STATION	70.5	10.3	62.4	1.0	69.9	4.1	70.8	- .5	76.6	.2	79.8	- .6	80.3	- 1.3	81.9M	.0	81.0	1.0	71.3	+ 2.9	68.3	- .2	60.0M	+ 1.5	72.6M	.8
TITUSVILLE	70.6	9.4	63.3	1.1	71.3	5.0	71.1	- .7	77.6	1.1	79.1	- 1.3	79.3	- 2.3	80.4	- 1.0	81.5	1.2	72.4M	+ 2.3	66.4	+ 1.0	60.0	- 2.1	72.8M	.8
WEEKI WACHEE	68.5		57.9		66.9		68.8		73.8		-		78.7M		79.6		79.4		-		64.3		-		-	
DIVISION	70.1	10.5	60.6	- .6	69.6	4.1	70.2	- 1.1	76.5	.1	79.2	- 1.1	79.7	- 1.8	81.0	- .7	80.9	1.0	71.2	+ 2.5	65.7	- .1	59.6	+ 1.0	72.0	.6
* * *																										
SOUTH CENTRAL 04																										
ARCADIA	71.1	9.0	63.2	- .3	71.9	4.3	72.5	- .3	77.7	1.0	79.0	- 1.0	79.9	- 1.3	81.3	- .4	81.7	1.4	72.7	+ 2.0	67.3	+ .3	62.6	+ .6	73.4	.8
ARCHBOLD BIOLOGIC STA	69.7	7.9	61.7	- 2.2	70.7	2.9	71.6	- 1.1	76.6M	- .7	78.3M	- 2.2	79.0	- 2.6	80.1	+ 2.0	81.2	.5	73.0	+ 2.5	67.4	+ .9	61.4	+ 2.0	72.6M	.4
AVON PARK 2 W	-		61.7M	- 2.5	-		-		-		77.7M	- 3.6	79.9	- 2.5	80.8	+ 2.0	80.9	.4	72.0	+ 3.8	67.5	+ 1.3	61.0	+ 3.1	-	
BARTOW	71.2	9.5	62.4	+ .6	71.2	3.9	70.9	- 1.8	77.3	- .1	79.6	- 1.4	80.0	- 2.1	81.6	- .8	82.0	1.2	72.6M	+ 2.3	68.2M	1.0	61.8	+ .6	73.2M	.5
BRADENTON 3 ESE	70.8	9.8	62.8		70.5		70.8		75.8		78.6		79.6		81.4		82.0		72.0		67.3		60.9M		72.6M	
CLEARWATER	71.7	10.7	62.7	.4	70.7M	4.4	71.7	- .5	77.5	.2	80.1	- .9	80.7	- 1.4	81.6	- .8	81.5	.8	72.3	+ 2.5	67.7	.4	62.0	- .4	73.4M	.9
FELLSMERE 7 SSW	-		-		M		76.1	- .4	-		-		-		-		M		-		-		M		-	
FORT DRUM 5 NW	70.2		62.6		70.6		70.0		76.3		78.4		79.4		80.5		81.1		72.8		67.5		62.4		72.7	
FORT PIERCE	71.7	8.2	63.3	+ 1.0	72.8	4.8	72.8	.9	77.1	.8	78.9	- .8	79.4	- 1.6	81.1	+ .5	82.1	1.5	73.2	+ .9	68.8	- .8	63.4	- 1.6	73.9	.7
INDIAN LAKE ESTATES	68.6		62.0		70.7		71.1		78.4		77.9		79.4		80.0		80.7		71.9		66.3		60.5		72.1	
KISSIMMEE NO. 2	70.7		62.9		70.9		71.7		77.5		79.9				81.7		82.1		72.7		67.6		62.0		73.3	
LAKE ALFRED EXP STA	70.0	9.7	61.1	- .6	70.0	3.7	70.8	- .8	77.3	.9	80.2	- .2	80.4	- 1.1	81.8	.0	81.7	1.7	71.7	+ 2.4	67.4	1.0	59.9	- 1.5	72.7	.9
LAKELAND WSO CI	71.0	10.2	61.7	- .4	71.2	4.5	71.3	- .7	77.7	1.2	79.3	- 1.2	80.0	- 1.8	81.9	.0	81.5	1.3	71.8	+ 2.5	67.6	.6	61.3	+ .7	73.0	.9
MELBOURNE	71.2	9.4	62.0	+ .7	70.8	4.3	71.9	- .4	76.9	1.3	78.7	- .7	79.1	- 2.1	80.7	- .8	79.9	.4	71.3	+ 3.8	68.1	.2	61.5	- 1.6	72.7	.5
MOUNTAIN LAKE	71.2	10.0	63.3	.8	71.7	4.8	72.4	.3	78.6	2.0	80.1	- .1	80.5M	- 1.0	81.4	- .3	82.1	2.0	72.9	+ 1.8	67.7	.7	62.2M	.0	73.6M	1.4
MYAKKA RIVER ST PARK	69.5		61.8		70.4		71.2		76.7		78.9		80.4		81.7		82.0		73.2		68.6		62.3		73.0	
OKEECHOBEE 9 E	-		-		-		-		-		-		-		-		-		-		68.6	- .2	62.2	- 1.4	-	
OKEECHOBEE HRCN GATE 8	-		-		-		-		-		-		-		-		-		-		68.4		63.3		-	
PARR SW	71.9		63.7		71.9		72.0		77.2M		79.6		80.5		82.3		82.5		73.1		68.4		63.3		73.9M	
PLANT CITY	71.3	9.9	62.1	- .6	71.2	4.4	71.6	- .3	77.6	1.1	79.1	- 1.1	-		81.4	+ .3	81.7	1.3	-		-		62.1M	- .4	-	
ST PETERSBURG	71.8	9.6	64.4	+ .7	71.7	4.1	73.3	- .1	78.0	- .4	80.0	- 1.8	81.1	- 1.5	81.8	- 1.1	82.4	.8	74.3	+ 1.7	70.4	1.7	63.5	- .1	74.4	.9
SARASOTA	71.1		63.9		70.6		71.6		77.6		78.9		79.8		80.9		81.4		72.8		67.4		62.2		73.1	
TAMPA WSO AP	71.1	10.7	61.1	+ .7	70.9	4.9	70.9	- 1.1	78.2	1.0	80.1	- .9	81.1	- .8	82.8	.6	82.8	2.0	72.9	+ 1.8	67.9	1.1	61.9	.3	73.5	1.3
TARPON SPGS SEWAGE PL	69.5M	9.9	62.0	.5	69.6	4.0	70.4	- .8	75.6M	- .9	78.3	- 2.2	79.7	- 2.1	80.6	- 1.4	80.8	.2	71.3	+ 3.1	67.0	.5	60.9	- .3	72.2M	.4
VENICE	69.9		62.0		69.3		71.4		76.9		79.4		80.8		81.3		81.4		72.1		67.9		61.6		72.8	
VERO BEACH 4 W	69.8		61.4		69.4		70.3		75.9		78.2		79.1		80.4		81.1		73.5M		68.2		62.3		72.5M	
WAUCHULA 2 N	71.4	9.6	63.4	.6	71.8	4.7	71.8	- .3	77.5	.9	79.9	- .3	80.1	- 1.2	81.4	.2	82.1	1.9	72.9	+ 1.8	68.2M	.8	62.7	.0	73.6M	1.2
WINTER HAVEN	71.8	10.2	63.2	.1	71.5	4.3	72.6	- .1	77.9	.0	79.8	- 2.1	80.0	- 1.8	81.6	- .6	82.3	1.5	72.8	+ 2.6	68.1	.3	62.4	- .5	73.5	.7
DIVISION	70.8	9.2	62.8	- .4	70.9	4.0	71.5	- .6	77.1	.4	79.1	- 1.2	80.0	- 1.6	81.3	- .6	81.6	1.1	72.6	+ 2.4	67.9	.2	61.9	- .9	73.1	.6
* * *																										
EVERGLADES AND SW COAST 09																										
BELLE GLADE EXP STA	70.7	7.5	63.6	+ .3	71.1	3.8	71.0	- .3	77.1	2.0	78.9	.1	79.7	- .6	80.2	- .5	80.8	1.1	73.2	+ 1.9	69.3	.7	63.9	- .1	73.3	1.0
CANAL POINT USDA	70.2		63.0M		71.7		72.2		77.1		79.1		79.7		80.4		81.4		74.5		69.6		64.1		73.6M	
CLEWISTON 2 S ENG	72.2		64.0		72.2		73.1		77.8		79.1		80.4		81.3		82.8		75.4		70.0		64.9		74.6	

See Reference Notes Following Station Index

Table 7

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

FLORIDA
1976

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
DEVILS GARDEN TOWER	-		-		-		-		-		-		-		-		-		-		-		M		-	
EVERGLADES	71.9	6.3	63.4M	- 3.2	71.0M	1.1	M		-		-		80.9	- 1.4	82.9	- .4	82.7M	.7	79.3	- 2.6	71.0	- .7	66.4M	- .4	-	
FLAMINGO RANGER STA	73.0M		M		-		-		-		80.2M		79.8M		-		80.8M		-		M		67.7M		-	
FORT MYERS WSO AP	73.0	9.5	65.6	.9	72.0	3.5	74.5	1.2	78.9	1.2	80.0	- 1.1	81.4	- 1.1	82.9	.1	83.0	1.4	73.0	- 1.4	70.6	1.2	65.9	1.1	75.2	1.3
IMMOKALEE 3 WNW	70.9		64.0		71.4		71.5		77.3		78.4		80.4		81.2		81.7		73.1		69.0		65.4		73.7	
LA BELLE	M		63.3M	- 1.4	72.0M	3.5	M		M		M		M		M		M		M		M		M		-	
MOORE HAVEN LOCK 1	71.7	9.0	62.8	- 1.1	70.9	2.9	71.6M	- 1.1	77.4	.8	79.2	- .9	79.9	- 1.5	80.3	- 1.4	81.7	.9	73.6M	- 2.4	68.7	- .3	63.9	- .2	73.5M	.4
NAPLES 2 NE	72.0	6.8	65.6	- .3	72.2	2.8	74.0	.5	77.3	- .1	80.0	- .9	80.7	- 1.7	82.5	- .5	83.5	1.5	76.0	- 1.3	72.0M	1.0	66.7	.3	75.2M	.7
PUNTA GORDA 4 ENE	71.2	7.2	63.8		72.1		72.6		77.8		79.9		80.6		81.9		82.4		73.3		68.8		-		-	
TAMIAMI TRL 40 MI BEND	73.0	5.8	65.9	- 2.4	73.0	.4	71.6	- 2.1	77.6M	.7	79.7M	- .9	81.4	- 1.0	82.1	- 1.1	83.3	1.1	76.5	- 1.9	72.8	.0	68.2	- .2	73.2M	- .2
DIVISION	71.8	7.6	64.0	- 1.4	71.6	2.7	72.5	- .7	77.6	.6	79.5	- .9	80.4	- 1.4	81.6	- .7	82.2	1.0	74.6	- 2.1	70.2	.0	65.7	.2	74.3	.4
* * *																										
LOWER EAST COAST 06																										
FORT LAUDERDALE	73.4	6.6	66.4	- 1.3	72.8	2.1	73.9	- .7	77.9	.4	80.3	- .2	81.0	- 1.2	M		82.0	.5	76.3	- 1.3	71.8M	- .6	67.2	- .7	-	
FT LAUDERDALE EXP STA	72.1		65.0		72.1		73.4M		78.2		79.6M		80.3M		80.5		81.8		75.3		70.0		66.1		74.5M	
HIALEAH	73.7	7.9	66.1M	- .2	74.6M	4.6	73.6M	- .3	78.1M	1.2	80.6	.5	81.6	.3	82.7	.8	-		76.1M	- .7	71.6	.4	68.1M	1.1	-	
HOMESTEAD EXP STA	71.4	6.1	65.4	- .7	72.1	2.7	72.6	- .5	77.7	1.8	79.2	.0	79.9	- .6	81.0	.0	82.0	1.8	75.1	- 1.2	70.4	.0	66.6	.2	74.5	.8
LOXAHATCHEE	70.2	6.2	64.1	- .5	70.7	2.7	70.6	- 1.4	76.2	.5	78.7	- .0	79.0	- 1.8	79.7	- 1.5	79.6	- .7	72.6M	- 2.2	68.3	- 1.2	64.2	- .9	72.0M	- .2
MIAMI BEACH	74.2	5.7	68.0	- 1.0	74.9	3.1	74.8	- .5	78.2	.1	80.2	- .9	81.9	- .6	82.3	- .8	82.5	.7	76.4	- 2.0	73.3	- .3	68.6	- 1.6	76.3	.2
MIAMI WSO AP	74.3	7.1	68.9	1.1	75.6	4.8	76.2	1.2	80.0	2.0	82.1	1.1	82.6	.2	84.0	1.1	84.1	2.4	78.1	.3	72.9	.7	69.0	.7	77.3	1.8
MIAMI 12 SSW	73.2	7.3	66.0	- .7	M		73.7M	- .8	77.8M	.5	79.8M	- .4	80.4	- 1.3	82.1	.1	82.9	1.9	76.3	- .5	71.5	.1	67.3	.3	-	
POMPANO BEACH	74.1	7.1	68.0	.5	75.0	4.4	75.6	1.2	78.5	1.4	79.6M	- .5	80.2	- 1.2	82.7M	.8	80.9M	- .2	77.3	- .1	72.8	.7	68.5M	.5	76.1M	1.2
SOUTH MIAMI 5 W	-		66.7M		79.2		74.0M		78.1		79.6M		80.4		81.1		81.4		75.3		70.4M		66.9		-	
STUART 1 N	71.1	5.7	64.8	- 1.4	72.0	2.3	72.6	- 1.5	76.0	- 1.5	78.1	- 2.8	79.0	- 3.2	80.3	- 2.4	81.8	.2	73.3	- 1.8	69.5	- 1.9	64.7	- 2.0	73.8	- .8
WEST PALM BEACH WSO AP	73.2	7.7	66.7	.6	73.6	3.8	74.3	.4	78.6	1.1	80.0	- .5	81.8	- .1	82.7	.4	82.3	.8	77.0	- .2	72.0	1.0	68.8	.0	75.8	1.3
DIVISION	72.8	6.5	66.3	- .6	73.9	3.1	73.8	- .3	77.9	.8	79.8	- .4	80.7	- 1.0	81.7	- .4	81.9	.8	76.0	- 1.2	71.2	- .5	67.0	- .5	75.2	.5
* * *																										
KEYS 07																										
KEY WEST WSO AP	76.8	6.1	71.0	- .6	75.8	1.2	77.6	- .5	80.4	- .5	82.9	- .6	83.6	- 1.0	84.2	- .5	84.4	1.2	79.1	- .5	73.3	.2	72.1	.6	78.6	.4
KEY WEST M			-		-		-		-		-		-		-		-		-		-		-		-	
MARATHON SHORES	-		-		-		-		-		M		82.1		83.1		84.0		77.8		74.5M		-		-	
TAVERNIER	75.9	6.4	70.2	.0	78.1	2.8	76.6	- .1	79.2M	- .1	82.2	.2	83.6	.3	83.3	- .5	83.0	.7	78.4	- .4	74.5	.2	70.7	.1	77.8M	.8
DIVISION	76.4	6.6	70.6	.1	78.0	2.5	77.1	.1	79.8	.0	82.6	.2	83.1	- .8	83.3	- .7	83.8	1.2	78.4	- .8	74.8	.1	71.4	.4	78.1	.7

See Reference Notes Following Station Index

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

TABLE 2

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
* * * NORTHWEST 01																										
APALACHICOLA WSO CI	.95	-2.12	1.86	-1.92	2.38	-2.32	2.04	-1.57	8.70	5.92	3.60	-1.90	5.03	-2.99	10.08	2.01	18.32	9.32	.14	-2.74	1.19	-1.49	3.05	-.53	57.94	-.72
BLOUNTSTOWN	3.91	-.22	3.35	-.54	1.91	-3.60	2.79	-1.91	9.11	1.40	3.50	-2.06	9.11	-4.85	4.58	-1.98	5.57	-.17	.82	-2.20	1.42	-1.60	5.12	1.25	39.41	-19.26
CARRABELLE 1 NNW	3.85	-.13	-	-	-	-	5.47	1.57	-	-	-	-	8.50	-2.23	-	-	-	-	-	-	-	-	-	-	-	-
CARYVILLE	8.29	1.79	3.64	-.91	4.85	-1.29	6.25	1.18	2.80	-1.30	1.82	-3.93	8.66	1.18	3.67	-2.34	2.48	-2.95	1.30	-1.17	5.18	1.90	3.33	-1.35	50.11	-8.79
CHIPLEY 3 E	4.95	.42	5.54	1.22	3.03	-2.91	4.13	-.48	2.48	-1.54	1.73	-3.34	5.48	1.03	2.27	-3.48	3.70	-1.44	1.23	-1.45	4.37	1.25	2.68	-1.84	41.24	-14.59
DE FUNIAK SPRINGS	9.05	.38	4.86	-.06	2.50	-4.31	3.42	-1.59	1.87	-2.50	3.41	-2.95	3.59	-5.23	9.01	1.35	7.00	-.22	1.05	-2.16	5.51	1.99	3.38	-1.38	50.89	-16.23
FOUNTAIN 3 SSE	2.78	E	4.00		1.77		2.39		5.45		3.40		8.02		11.14		8.13	E	.87	E	3.99		4.05	E	56.01	E
MILTON EXP STATION	4.88		6.12		3.82		4.88		4.84		2.85		3.80		8.95		8.92		.90		3.72		3.20		56.49	
MONTICELLO 3 W	3.19	-.57	2.86	-1.58	2.98	-2.64	2.75	-1.48	3.10	-.24	3.37	-2.32	4.81	-2.61	6.87	1.35	9.62	3.99	.56	-2.14	.71	-1.71	4.18	-.47	45.56	-9.00
NICEVILLE	7.94	3.59	3.17	-1.30	3.57	-2.04	1.48	-3.45	1.89	-2.13	3.00	-3.18	5.17	-3.18	8.50	.98	9.24	1.76	2.91	-.26	3.55	-.07	3.32	-1.68	53.32	-10.82
PANAMA CITY 5 NE	1.62		2.40		9.66		2.11		2.30		2.83		6.79		5.63		8.12		.60		3.27		3.84		42.95	
PENSACOLA WSO AP	3.61	-.76	3.20	-1.49	5.34	-.97	2.97	-2.42	3.25	-1.00	5.44	-.86	3.81	-1.52	5.63	-1.04	7.10	-1.03	.95	-2.18	2.81	-.58	2.47	-2.19	48.18	-16.04
QUINCY 3 SSW	4.52	.62	2.17	-2.29	2.54	-3.07	3.49	-1.13	5.24	1.28	6.48	1.19	5.18	-2.54	4.35	-1.27	5.29	-.43	.71	-2.61	.98	-1.64	3.66	-.64	44.84	-12.08
ST MARKS 5 SSE	2.12	-1.43	2.44	-1.57	6.58	-1.70	2.32	-.78	3.77	-.44	4.16	-1.99	9.08	-1.21	3.59	-.63	12.33	5.92	.08	-2.82	1.03	-1.58	4.69	-1.24	54.16	-.28
SMITH CREEK	3.36		2.80		3.39		2.99		8.07		1.77		8.58		6.98		9.87		.73		1.43		4.02		52.01	
TALLAHASSEE WSO AP	3.36	-.38	2.87	-1.90	3.00	-2.92	3.99	-.08	8.59	4.55	3.84	-2.78	7.80	-1.32	9.38	2.49	10.42	3.79	.93	-2.00	1.64	-1.17	3.80	-.42	59.43	-2.15
WEWAHITCHKA	2.03		3.39		7.88		2.65		3.60		4.10		10.58		11.07		11.02		.46		1.77		5.30		63.85	
WOODRUFF DAM	4.37		3.34		1.85		3.48		9.04		4.27		3.59		5.20		8.86		.69		.83		2.93		42.43	
DIVISION	3.85	-.38	3.39	-.98	3.51	-2.27	3.11	-1.37	4.22	.41	3.60	-2.20	8.04	-1.79	7.19	-.35	8.97	2.41	.85	-2.09	2.39	-.74	3.77	-.53	50.69	-9.16
* * * NORTH 02																										
CEDAR KEY 1 WSW	.39	-2.27	1.77	-1.34	3.46	-.39	.91	-1.75	2.90	.87	5.58	1.36	8.32	-1.88	11.51	3.84	4.19	-2.20	.25	-2.49	.45	-.96	3.98	3.60	43.69	-3.81
CRESCENT CITY	.28	-2.10	1.59	-1.85	4.33	.43	.98	-2.78	5.34	1.89	11.46	5.10	9.76	2.11	4.30	-3.24	6.38	1.28	.69	-3.83	.89	-1.15	1.55	-.99	44.98	-7.89
CROSS CITY 2 WNW	.78	-2.23	1.62	-2.15	2.72	-1.76	1.39	-1.46	1.86	-1.81	4.70	-2.34	9.77	-.61	16.87	8.99	6.85	.04	.27	-2.72	1.13	-1.12	5.46	-2.62	53.36	-4.55
FEDERAL POINT	.32	-2.34	2.74	-.46	4.30	-.62	.95	-2.02	3.10	-.40	14.81	8.91	7.14	-.30	7.75	.00	7.58	-.38	.30	-4.60	.57	-1.38	1.96	-.52	51.42	-3.08
FERNANDINA BEACH	.81	-1.84	1.97	-1.34	2.78	-1.04	1.69	-.99	3.05	-.36	6.20	.93	6.88	.23	9.72	2.73	10.61	2.52	.49	-4.22	.74	-1.85	2.45	-.22	47.39	-5.49
GAINESVILLE 2 WSW	.25	-2.59	2.58	-1.12	2.39	-1.87	1.17	-1.85	5.88	2.14	10.05	3.24	7.95	-.08	7.20	1.05	7.27	1.60	.91	-2.76	1.03	-.89	4.03	1.15	50.51	-4.08
GLEN ST MARY 3 W	1.08	-2.09	1.29	-2.75	4.81	-.44	1.78	-1.16	8.09	1.98	6.22	-.38	7.14	-1.68	11.36	3.39	8.04	-.90	.32	-3.47	.67	-1.64	2.78	-.69	51.58	-7.17
HIGH SPRINGS	-		-		-		-		-		-		7.19		8.78		5.21		.21		1.12		3.54		-	
ISLAND GROVE	.66		2.82		4.86		.78		3.82		20.81		5.69		8.51		5.18		.05		1.34		2.13		56.66	
JACKSONVILLE WSO AP	.28	-2.50	1.28	-2.30	3.47	-.69	1.53	-3.54	4.14	.92	9.32	.76	9.82	2.48	11.23	3.34	8.13	.30	.34	-4.20	1.03	-.76	1.73	-.86	48.52	-5.95
JACKSONVILLE BEACH	.92		1.35		4.41		1.13		4.87		7.96		7.52		14.32		7.54		.59		.95		1.86		52.23	
JASPER	4.88		3.00		8.61		4.38		4.60		5.60		4.67		6.41		5.92		.15		1.27		4.81		49.30	
LAKE CITY 2 E	1.96	-1.48	1.75	-2.12	5.15	1.09	2.48	-.78	7.28	3.44	8.91	2.43	6.92	-.45	11.83	4.98	4.44	-1.44	1.04	-2.48	.85	-1.64	3.92	.66	56.37	2.23
LIVE OAK	2.93		2.34		4.59		2.59		6.21		4.14		7.39		2.43		4.63		.45		1.28		3.55		43.55	
MADISON	4.78	1.33	2.55	-1.99	3.58	-1.78	3.02	-.88	6.61	3.27	3.63	-1.98	9.36	2.17	4.40	-1.63	5.43	-.03	2.26	-.35	2.68	-.29	3.76	-.39	52.08	-.55
MAYO	2.91		1.46		8.97		1.76		4.89		6.12		11.58		5.27		8.51		.20		.25		4.99		56.91	
PALATKA	.29	-2.25	2.26	-1.16	4.71	-.86	.48	-2.52	2.38	-.94	11.85	5.36	8.05	-.31	3.77	-3.79	10.08	2.50	.10	-4.78	.37	-1.48	1.52	-.89	45.86	-8.98
PERRY	2.05		1.53		7.41		1.93		9.04		3.30		11.63		13.81		8.34		.37		.99		5.04		65.66	
ST AUGUSTINE WFOY	.73		2.02		2.47		1.21		2.01		13.52		5.58		6.82		3.91		1.24		.31		1.63		41.65	
STARKE	.55		2.28		4.47		1.33		6.60		6.25		14.48		7.77		7.77		.48		1.28		4.82		57.88	
STEINHATCHEE 6 ENE	.58		1.32		2.34		1.57		3.55		7.65		9.80		8.75		7.22		.20		1.17		4.25		48.20	
USHER TOWER	.25		2.02		6.68		1.00		3.25		13.11		12.53		8.57		5.13		.15		1.33		4.47		58.48	
DIVISION	1.37	-1.60	1.96	-1.71	4.28	.03	1.68	-1.41	4.64	1.11	7.62	1.44	8.58	-.75	8.93	1.49	6.84	-.04	.93	-3.46	.97	-1.18	3.67	-.78	51.02	-3.80
* * * NORTH CENTRAL 03																										
ALEXANDER SPRINGS 3 SE	.18	E	3.07		-		-		-		E14.40		8.30		5.50		11.61		.36		.25		1.97		-	
BITHLO	.30		1.08		9.55		1.56		4.11		17.23		10.10		5.82		6.83		1.50		.25		1.87		54.20	
BROOKSVILLE CHEN HILL	1.43	-1.26	3.29	-.08	9.78	-.88	2.34	-.38	4.30	.80	14.37	6.72	9.84	-.82	9.85	-.25	8.04	-.75	.01	-3.08	.32	-1.44	1.37	-1.18	58.92	1.28
BUSHNELL 2 E	.24	-2.22	2.35	-.87	5.07	-.73	.37	-2.75	6.29	2.65	10.85	9.88	9.02	-3.95	8.31	.88	4.84	-1.81	.30	-3.07	.30	-1.21	1.93	-.85	51.15	-2.59
CLERMONT 8 SSW	.46	-1.88	1.20	-1.73	3.89	.00	.85	-2.10	4.77	1.86	12.08	5.08	7.81	-.81	4.76	-2.48	7.24	.68	.25	-2.91	.27	-1.39	1.81	-.33	45.39	-6.01
DAYTONA BEACH WSO AP	.30	-1.75	1.10	-1.82	3.19	-.18	.46	-1.95	2.60	.01	8.65	2.05	6.31	-.38	9.96	3.12	10.50	3.40	1.42	-4.10	.48	-1.65	2.20	-.24	47.21	-3.01
DELAND 1 SSE	.36	-1.87	1.55	-1.68	2.01	-1.66	.94	-1.78	1.76	-1.32	13.72	6.68	7.93	-.75	3.53	-4.26	5.59	-1.78	1.62	-3.73	1.03	-.76	2.09	-.15	41.53	-13.34
EVA	1.03		1.52		2.49		.71		6.11		9.66		8.45		4.30		8.03		.10		.36		1.92		44.63	
HART LAKE	.02	-2.27	1.12	-1.52	1.90	-1.87	.68	-2.14	5.39	2.18	15.79	8.04	10.37	2.40	5.30	1.83	7.11	-.29	.39	-3.12	.50	-1.32	1.64	-.36	50.16	2.10
HILLSBOROUGH RVR ST PK	.80		.95		2.97		.88		7.40		19.17		7.92		6.16		7.72		.30		.17		2.53		50.77	
INVERNESS	.26	-2.38	2.35	-1.04	3.77	-.53	.91	-2.19	2.64	-.84	17.44	10.37	5.21	-4.32	9.43	-.38	4.17	-2.23	T	-3.23	.39	-1.15	2.07	-.33	48.04	-8.25
ISLEWORTH	.27	-2.15	2.18	-.83	4.59	.80	.38	-2.34	4.05	.46	15.30	7.41	8.60	-.54	6.03	1.00	10.49	9.20	.22	-3.29	.20	-1.53	1.75	-.30	54.07	.91
LISBON	.10		2.74		3.57		1.01		3.77		13.50		6.97		5.59		4.07		.23		.65		1.94		44.14	
OCALA	.12		1.68		4.98		.44		4.66		15.98		9.12		7.37		4.74		.02		.70		1.19		50.98	
ORLANDO WSO MCCOY	-		.83	-1.65	3.67	.72	1.17	-2.29	2.69	-.25	15.28	8.17	8.01	-2.28	6.56	-.17	5.78	1.42	.48	-3.59	.31	-1.25	1.82	-.28	-	
ORLANDO WSO AP	.18	-2.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAINT LEO	.83	-1.72	3.71	-2.38	2.45	-2.08	1.06	-2.04	6.36	-2.57	19.08	11.06	6.83	-1.85	4.75	-3.80	10.85	3.77	.10	-2.83	.36	-1.33	2.19	-.17	60.75	-4.26
SANFORD EXP STATION	.20	-2.13	2.14	-.70	1.80	-2.30	.87	-1.82	3.85	-1.03	17.93	10.74	5.76	-2.59	5.30	-1.62	4.12	-3.63	.99	-3.57	.37	-1.38	2.10	-.03	45.31	-8.01
TITUSVILLE	.39	-1.90	1.44	-1.44	2.50	-1.16	.54	-2.13	3.91	-.83	9.12	-1.03	9.72	1.12	8.85	-.85	8.57	-.87	3.57	-2.65	1.20	-.98	2.18	-.07	51.99	-7.21
WEEKI WACHEE	.26		3.36		4.39		3.59		1.89		E17.24		11.85		9.65		7.11		.15		.47		1.93		E 61.89	
DIVISION	.38	-2.02	2.33	-.73	3.45	-.45	1.07	-1.70	3.81	-.65	14.59	7.65	7.38	-.61	7.11	-.58	8.95	.30	.67	-3.54	.52	-1.27	1.86	-.33	58.62	-3.25
* * * SOUTH CENTRAL 04																										
ARCADIA	.00	-2.10	1.38	-1.18	.30	-2.65	1.64	-.87	3.10	-1.00	15.32	6.25	14.99	6.15	6.67	1.12	5.68	-1.89	.18	-3.89	.12	-1.72	2.96	-.98	52.85	-3.08
ARCHBOLD BIOLOGIC STA	.33	-1.69	1.08	-1.47	.03	-3.02	1.43	-1.43	5.39	1.59	16.12	9.37	16.89	9.29	10.23	2.99	4.87	-2.33	.56	-3.76	.53	-1.10	2.93	-1.37	58.40	-5.81
AVON PARK 2 W	.54	-1.60	1.26	-1.51	.21	-3.15	1.19	-1.89	5.03	1.10	20.14	11.01	9.86	.89	3.53	-3.72	3.22	-4.50	.30	-3.51	.23	-1.41	2.20	-.50	47.55	-7.79
BABSON PARK	.20		1.74		.70		1.20		6.41		17.11		12.92		7.87		6.24		.10		.20		1.88		56.63	
BARTOW	.25	-2.06	1.34	-1.64	1.65	-2.10	1.40	-1.56	5.12	.54	11.05	3.28	9.71	.97	4.36	-3.67	5.06	-1.88	.31	-2.85	.10	-1.86	2.19	-.05	42.48	-12.78
BRADENTON 9 ESE	.00	-2.68	1.54	-1.32	.78	-2.87	.79	-1.84	1.07	-1.51	17.33	9.70	8.48	-.45	10.29	.74	4.50	-4.18	.06	-3.18	.21	-1.70	4.23	-2.06	49.28	-7.07
CLEARWATER	.25	-2.30	1.95	-1.16	3.19	-1.96	.48	-1.77	.55	-1.42	19.36	14.13	9.45	.01	8.45	-1.24	9.97	-3.19	.11	-2.80	.19	-1.82	3.81	-1.37	57.77	-4.77
CORNNELL 4 NW	.48		.97	E	.12		.58		2.76		11.78		8.13		6.38		5.11		1.62		1.02		2.01		41.05	
DE SOTO CITY 8 SW	.39		2.17		.28		.44		6.66		13.89		9.37		7.42		5.99		.28		.60		2.47		30.14	
FELLSMERE 7 SSW	-		-		-		1.28	-1.35	2.23	-1.68	-		-		-		-		-		-		1.57	-.14	-	
FORT DRUM 5 NW	1.02		1.83		.08		2.50		3.63		10.83		10.54		10.90		8.09		2.46		.78		1.48		53.94	
FORT GREEN 12 WSW	.04		1.22		.44		.54		2.01		11.91		10.45		3.64		3.47		.00		.10		2.42		36.24	
FORT PIERCE	2.66	.65	.88	-1.91	.48	-3.02	2.07	-1.26	4.93	.78	8.08	1.97	12.62	7.08	4.68	-1.87	6.21	-2.48	3.42	-4.25	2.10	-.26	1.82	-.42	49.93	-4.98
INDIAN LAKE ESTATES	1.00		2.13		.24		1.59		5.70		12.00		12.44		10.90		4.20		.30		.38		2.36		53.44	
KISSIMMEE NO. 2	.32		1.23		2.10		.67		2.46		11.93		6.62		4.07		4.22		.38		1.06		1.63		36.71	
LAKE ALFRED EXP STA	.25	-2.31	1.32	-1.50	2.28	-1.88	1.23	-1.45	5.27	1.35	11.43	3.52	5.67	-2.21	4.82	-2.39	8.93	2.03	.32	-2.90	.20	-1.49	1.59	-.65	43.33	-9.54
LAKELAND WSO C1	1.20	-1.12	.75	-1.77	2.37	-1.85	.63	-1.94	3.12	-.92	13.55	6.65	8.59	-.50	6.61	-.57	5.01	-1.05	.04	-2.80	.30	-1.30	1.72	-.37	43.89	-5.54
MELBOURNE	.09	-2.18	.85	-1.50	.10	-3.58	1.12	-1.24	2.36	-1.21	7.39	.85	9.05	3.00	4.17	-1.46	5.04	-3.15	2.63	-2.92	1.31	-1.29	2.39	-.78	36.50	-14.29
MOUNTAIN LAKE	.29	-2.08	1.20	-1.69	.56	-3.20	.80	-1.86	2.07	-1.94	11.84	4.02	11.35	3.22	8.74	-1.14	8.21	1.88	.09	-3.11	.18	-1.52	1.80	-.20	45.19	-7.66
MYAKKA RIVER ST PARK	.00		3.39		.47		.96		3.60		26.03		10.61		5.05		5.46		.00		.39		3.21		53.17	
OKEECHOBEE 9 W	.42		1.08		-		-		-		-		-		-		-		1.05		-		-		-	
OKEECHOBEE WRCN GATE 8	-		-		-		-		-		-		-		-		-		-		-		.79	.46	1.97	.50
PARRISH	.13		.66		.42		1.22		4.25		14.76		7.75		5.94		5.21		.14		.91		3.30		44.29	
PLANT CITY	1.74	-.76	.73	-2.14	2.53	-1.57	.59	-2.03	3.56	-.29	10.90	2.18	8.01	-2.73	7.48	1.81	4.62	-2.80	.19	-2.89	.16	-1.61	2.52	-.18	40.41	-15.39
ST PETERSBURG	.44	-2.13	.77	-2.13	3.50	-.91	.01	-2.68	4.40	1.95	29.00	16.61	3.96	-5.14	7.53	1.61	9.64	1.96	.14	-3.28	.12	-1.82	3.39	1.06	54.90	.90

See Reference Notes Following Station Index

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

FLORIDA
1974

TABLE 2

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
SARASOTA	.03		2.66		1.51		.51		.81		12.40		6.41		11.51		4.73		.44		.27		3.57		44.85	
TAMPA WSO AP R	.13	-2.16	.89	-1.97	2.33	-1.54	.38	-1.72	1.11	-1.30	13.75	7.26	3.43	-5.00	4.67	-3.23	6.00	-2.35	.23	-2.31	.12	-1.67	2.80	-.61	33.90	-15.48
TARPON SPGS SEWAGE PL	.07	-2.62	1.44	-1.38	5.31	.93	.85	-1.83	3.20	.68	18.29	12.71	4.11	-4.99	9.38	.06	7.38	-.04	.07	-2.71	.30	-1.61	2.23	-.31	52.58	-1.09
VENICE	.24		.74		.40		.26		1.28		11.93		13.14		13.69		7.62		.20		1.41		2.81		51.72	
VERO BEACH 4 W	2.66		1.91		1.91		2.97		4.35		9.19		7.14		8.68		4.38		3.13		2.94		1.66		50.68	
WAUCHULA 2 N	.03	-2.17	1.12	-1.67	.30	-3.09	1.56	-1.29	2.74	-1.25	16.97	8.31	10.05	1.01	7.92	.44	3.58	-4.30	.10	-2.95	.18	-1.47	2.32	.62	46.85	-9.81
WINTER HAVEN	.61	-1.72	.88	-1.98	2.66	-1.23	1.32	-1.32	5.09	1.10	13.07	6.07	10.48	1.97	6.22	-.36	7.31	-.72	.43	-2.93	.46	-1.31	1.68	-.42	50.41	-1.59
DIVISION	.31	-1.70	1.35	-1.41	1.35	-2.29	1.13	-1.55	3.32	-.11	13.83	6.52	9.09	1.09	7.36	-.35	5.89	-1.61	.67	-3.35	.58	-1.29	2.45	-.46	47.59	-5.39
05 EVERGLADES AND SW COAST																										
BELLE GLADE EXP STA	.81	-1.18	.19	-1.75	.41	-2.80	1.34	-1.62	2.68	-2.06	13.15	4.07	11.52	2.94	7.20	-1.01	9.47	.65	1.18	-6.47	1.65	-.09	1.76	-.04 E	51.36	-7.39
CANAL POINT USDA	2.12		.58		.22		1.37		6.01		10.43		8.87		5.89		7.14		2.06		1.60		.95		45.24	
CLEWISTON U S ENG	.17	-1.48	.24	-1.82	.37	-2.50	.89	-1.91	1.86	-2.70	16.27	8.69	11.63	4.70	9.00	2.43	6.72	-2.31	1.91	-2.64	1.36	-.13	1.09	-.46	49.51	-.13
DEVILS GARDEN TOWER	-		-		-		-		-		-		-		-		-		-		-		1.40		-	
EVERGLADES	.35	-1.32	.00	-1.79	.00	-1.96	2.27	-.18 E	3.15	-1.51 E	12.09	2.60	9.42	.83	6.30	-.49	5.74	-3.86	.11	-4.65	.38	-1.06	4.19	2.92 E	43.95	-10.45
FLAMINGO RANGER STA	1.88		.20	E .30	E 1.38		E 3.18		8.00				4.78		5.22		3.94		2.65		.06		1.78	E	33.14	
FORT MYERS WSO AP R	.26	-1.28	.81	-1.22	.02	-3.03	.11	-3.92	2.40	-1.39	20.10	11.21	14.47	5.57	7.70	-.02	4.31	-4.40	.19	-4.18	1.46	-.15	.89	-.41	52.83	-1.12
IMMOKALEE 3 NNW	.24		1.68		1.23		1.31		6.98		16.78		8.41		8.47		7.41		.46		2.28	E	.43	E	55.68	
LA BELLE	.10	-1.66	.81	-1.42	.04	-3.21	1.42	-1.12	7.86	-3.34	16.34	6.69	9.43	-.91	6.77	-.92	5.62	-1.87	.84	-3.36	1.64	-.39	1.72	-.21	52.59	-2.09
MOORE HAVEN LOCK 1	.14	-1.62	1.36	-.70	.08	-2.80	.97	-1.70	3.00	-1.43	14.91	6.88	10.56	11.40	7.99	1.42	5.91	-1.58	1.33	-3.13	1.64	-.50	1.71	-.18	57.62	7.40
NAPLES 2 NE	.12	-1.75	.41	-1.47	.00	-2.40	.03	-1.97	5.19	-1.38	12.83	4.67	8.72	-1.63	5.56	-2.61	7.59	-1.86	.06	-4.19	2.72	-1.35	1.14	-.18	42.38	-10.62
PUNTA GORDA 4 ENE	.10	-1.81	.18	-2.13	.42	-2.36	.63	-1.74	2.49	-1.15	23.99	14.87	7.89	-.50	9.92	2.72	4.63	-3.39	.58	-3.50	.68	-.68 E	1.85	-.20 E	53.25	1.56
TAMIAMI TRL 40 MI BEND	.22	-1.32	.09	-1.49	.00	-2.22	1.11	-1.57	1.11	-4.82	11.36	-1.54	13.02	4.84	10.18	2.69	4.89	-4.64	1.89	-4.34	4.04	2.54	1.86	-.83	49.59	-7.96
DIVISION	.53	-1.23	.55	-1.44	.28	-2.48	1.07	-1.37	3.83	-.65	14.52	5.74	10.23	2.23	7.52	-.22	6.10	-2.14	1.11	-3.69	1.62	-.25	1.39	-.13	48.93	-4.39
06 LOWER EAST COAST																										
FORT LAUDERDALE	4.35	2.08	.21	-2.09	1.39	-.81	.26	-3.18	4.59	-.92	9.58	1.39	7.66	1.74	4.89	-2.02	8.97	.38	4.62	-4.31	3.90	-.97	2.99	-.38	53.59	-6.49
FT LAUDERDALE EXP STA	2.79		.34		2.19		.65		3.74		7.37		8.24		9.37		5.38		5.45		3.30		3.21		50.03	
HIALEAH	2.89	.60	.00	-1.93	.81	-1.14	.70	-3.04	4.34	-1.74	14.02	4.62	6.89	-.46	3.77	-3.79 E	4.64	-4.74	4.19	-4.82	2.96	-.14	2.65	-.91 E	47.96	-13.18
HOMESTEAD EXP STA	.79	-1.05	T	-1.78	.09	-2.22	3.20	-.09	3.84	-2.21	8.05	-4.30	9.37	1.18	9.72	2.14	4.86	-3.21	1.60	-6.76	3.18	1.06	.67	-.49	43.43	-19.56
LOXAHATCHEE	6.03	3.61	.52	-1.92	1.95	-1.94	1.19	-2.11	3.03	-1.93	8.21	-1.40	10.74	2.70	5.53	-2.69	7.32	-2.35	3.47	-4.47	4.39	-2.09	2.08	-.02	54.46	-10.03
MIAMI BEACH	2.79	.85	.02	-1.85	.38	-1.44	1.59	-1.04	5.21	.80	4.08	-2.67	4.22	-1.69	2.40	-1.82	2.90	-4.35	1.67	-5.10	3.94	-1.61	.92	-1.20	28.68	-17.86
MIAMI WSO AP R	2.54	.39	.10	-1.85	2.27	-.20	2.11	-1.49	2.63	-3.45	8.12	-.88	6.09	-.82	9.29	2.57	6.38	-2.36	3.66	-4.50	4.62	-1.90	1.17	-.47	49.00	-10.80
MIAMI 12 SSW	4.42	2.24	.00	-2.01	.46	-1.90	1.18	-2.19	3.81	-2.76	5.15	-3.64	5.91	-.35	3.13	-2.75	1.83	-7.25	2.79	-6.14	3.46	-.81	1.27	-.34	33.45	-25.88
POMPANO BEACH	11.27	8.78	.20	-2.14	1.30	-1.48	.80	-2.64	3.02	-2.33	6.48	-1.67	7.60	.89	4.03	-2.83	9.04	.19	3.85	-8.61	5.45	-2.72	1.30	-1.08	54.32	-8.28
ROYAL PALM RANGER STA	.31		.06		.13		3.33		2.29		9.29		10.76		6.34		E 3.40		6.00		2.12		.30		E 48.39	
SOUTH MIAMI 5 W	E 3.48		T		.88		2.16		5.29		8.63		9.28		9.26		9.11		2.92		2.88		1.50		E 55.36	
STUART 1 N	1.87	-.56	.80	-1.72	1.40	-2.08	1.38	-1.47	3.47	-1.01	8.30	-1.16	12.44	5.89	5.06	-1.13	3.59	-4.87	4.40	-3.08	3.22	-1.05	2.04	-.22	47.95	-8.04
WEST PALM BEACH WSO AP R	8.30	5.70	.42	-2.16	2.44	-.88	1.18	-2.33	2.93	-2.24	4.87	-3.27	11.00	4.48	5.85	-1.06	5.62	-4.22	9.30	-.35	3.99	-1.51	2.58	-.35	58.46	-3.60
DIVISION	4.29	2.00	.22	-1.96	1.32	-1.21	1.37	-1.94	3.82	-1.65	7.67	-.90	8.04	1.47	6.03	-.60	5.80	-3.22	4.00	-4.41	3.77	-1.21	1.83	-.14	48.06	-11.47
07 KEYS																										
KEY WEST WSO AP	.57	-1.10	.41	-1.44	.30	-1.26	.21	-1.96	3.45	-.94	2.99	-1.96	2.38	-1.73	4.13	-.34	3.05	-4.29	.95	-4.62	1.22	-1.45	.33	-1.19	19.99	-20.00
KEY WEST	1.41		.46		-		-		-		-		-		-		-		-		-		-		-	
MARATHON SHORES	-		-		-		-		-		-		4.49		5.67		1.78		4.44		.73		-		-	
TAVERNIER	2.20	.20	.25	-1.61	.48	-1.41	.45	-1.83	5.28	.89	3.61	-3.00	2.79	-1.96	3.79	-1.09	2.77	-4.88	.71	-7.66	.37	-1.99	2.27	-.22	24.93	-23.96
DIVISION	1.38	-.45	.37	-1.54	.38	-1.46	.33	-1.77	4.36	-1.21	3.30	-2.00	3.22	-.90	4.53	.08	2.53	-4.49	2.03	-4.77	.77	-1.58	1.30	-.46	24.91	-18.13

See Reference Notes Following Station Index

Table 3

TEMPERATURE EXTREMES AND FREEZE DATA

FLORIDA
1974

Station	Highest	Date	Lowest	Date	Last spring minimum of 16° or below Date	Temp.	20° or below Date	Temp.	24° or below Date	Temp.	28° or below Date	Temp.	32° or below Date	Temp.	First fall minimum of 32° or below Date	Temp	28° or below Date	Temp.	24° or below Date	Temp.	20° or below Date	Temp	16° or below Date	Temp.	Number of days between dates 16° or below	20° or below	24° or below	28° or below	32° or below
* * *																													
NORTHWEST 01																													
APALACHICOLA WSO CI	94	7-12	29	2-26	NONE		NONE		NONE		NONE		2-26	29	NONE		NONE		NONE		NONE		NONE						
BLOUNTSTOWN	98	7-12	22	2-27	NONE		NONE		2-28	24	2-28	24	3- 1	32	11-13	30	12- 4	24	12- 4	24	NONE		NONE				279	279	257
CARRABELLE 1 NNW		-		-	-		-		-		-		-		-		-		-		-		-				-	-	-
CHIPLEY 3 E	98	7-12+	23	12-10	NONE		NONE		NONE		2-28	26	3- 1	30	11-13	32	12- 2	27	12-10	23	NONE		NONE					277	257
DE FUNIAK SPRINGS	98	7-11	20	12-10+	NONE		2-27	20	2-28	24	2-28	24	2-28	24	10- 4	32	11-18	28	12- 5	21	12-10	20	NONE			286	280	261	218
FOUNTAIN 3 SSE	97	6-20	16	2-27	2-27	16	2-27	16	2-28	23	2-28	23	4-10	30	11-10	29	11-15	26	11-26	23	12-10	20	NONE			286	271	260	214
MILTON EXP STATION	98	7-12+	23	2-26	NONE		NONE		2-26	23	2-27	26	2-28	30	11-13	31	11-26	28	NONE		NONE		NONE					272	258
MONTICELLO 3 W	94	7-12+	20	2-28+	NONE		2-28	20	2-28	20	2-28	20	3- 1	29	11-13	30	11-29	27	12- 5	24	NONE		NONE				280	273	257
NICEVILLE	101	7-13	22	2-27	NONE		NONE		2-27	22	2-28	27	3- 1	30	11-13	32	12- 5	27	NONE		NONE		NONE					280	257
PANAMA CITY 5 NE	98	7-13	22	12-18	NONE		NONE		2-27	24	2-28	25	3- 1	32	11-26	30	12- 4	27	12-18	22	NONE		NONE				294	279	270
PENSACOLA WSO AP	99	7-12+	27	2-26	NONE		NONE		NONE		2-26	27	2-27	31	12- 1	31	12-10	28	NONE		NONE		NONE					287	277
QUINCY 3 SSW	95	7-12	22	2-27	NONE		NONE		2-27	22	2-28	25	2-28	25	11-13	31	12- 4	27	NONE		NONE		NONE					279	258
ST MARKS 5 SSE	97	8-11	21	2-26	NONE		NONE		2-27	24	2-27	24	2-28	32	-		-		12-17	24	NONE		NONE				293	-	-
SMITH CREEK	98	7-11+	19	12- 4+	NONE		2-27	19	2-27	19	2-28	26	4-10	32	11-13	25	11-13	25	12- 4	19	12- 4	19	NONE		280	280	258	217
TALLAHASSEE WSO AP	95	7-30+	17	2-27	NONE		2-27	17	2-27	17	2-28	26	2-28	26	11-13	30	11-28	25	12- 4	19	12- 4	19	NONE		280	280	273	258
WEWAHITCHKA	97	6-21	24	2-26	NONE		NONE		2-26	24	2-28	28	2-28	28	11-13	31	12- 4	26	NONE		NONE		NONE					279	258
WOODRUFF DAM	97	7-18	26	2-27	NONE		NONE		NONE		2-28	27	2-28	27	12- 5	29	12-19	27	NONE		NONE		NONE					294	280
* * *																													
NORTH 02																													
CEDAR KEY 1 WSW	93	9-29+	27	2-27	NONE		NONE		NONE		2-27	27	2-27	27	NONE		NONE		NONE		NONE		NONE						
CROSS CITY 2 WNW		-	17	2-27	NONE		2-28	20	2-28	20	2-28	20	4- 7	32	11-12	32	12- 4	25	NONE		NONE		NONE					279	219
FEDERAL POINT		-	29	12-19+	NONE		NONE		NONE		NONE		2-27	32	12- 2	31	NONE		NONE		NONE		NONE						278
FERNANDINA BEACH	95	8-23	26	2-27	NONE		NONE		NONE		2-27	26	2-27	26	11-20	27	11-20	27	NONE		NONE		NONE					266	266
GAINESVILLE 2 WSW	95	8-30+	25	2-27	NONE		NONE		NONE		2-27	25	2-27	25	12- 2	32	12- 4	26	NONE		NONE		NONE					280	278
GLEN ST MARY 1 W		-	25	12-11+	NONE		NONE		NONE		2-27	26	2-27	26	-		12- 4	27	NONE		NONE		NONE					280	-
HIGH SPRINGS	94	8-20		-	-		-		-		-		-		12- 3	32	12- 5	28	NONE		NONE		NONE					-	-
JACKSONVILLE WSO AP	93	8-19+	23	2-26	NONE		NONE		2-26	23	2-27	25	2-27	25	11-14	32	12- 4	28	NONE		NONE		NONE					280	260
JACKSONVILLE BEACH	95	7-20+	21	2-26	NONE		NONE		2-26	21	2-26	21	2-26	21	NONE		NONE		NONE		NONE		NONE						
JASPER	98	8-15+	20	2-28+	NONE		2-28	20	2-28	20	2-28	20	3- 1	31	11-14	28	11-14	28	NONE		NONE		NONE					259	258
LAKE CITY 2 E	93	8-29+	23	2-27+	NONE		NONE		2-27	23	2-27	23	3-17	30	11-13	32	12- 3	28	NONE		NONE		NONE					279	241
LIVE OAK	97	7-30+	19	2-27	NONE		2-27	19	2-27	19	2-27	19	2-27	19	11-13	30	11-28	28	12- 4	25	NONE		NONE				280	274	259
MADISON	98	7-19+		-	-		-		-		-		-		-		12-10	27	12-18	24	NONE		NONE					-	-
MAYO	95	9- 1+	20	2-28+	NONE		2-28	20	2-28	20	2-28	20	2-28	20	11-13	31	12- 4	25	NONE		NONE		NONE					279	258
PALATKA	97	7-18	27	2-26	NONE		NONE		NONE		2-26	27	2-27	31	12- 3	32	NONE		NONE		NONE		NONE						279
PERRY	97	7-11+	19	2-27	NONE		2-27	19	2-27	19	2-27	19	2-28	29	11-13	30	12- 4	25	12-10	24	NONE		NONE				286	280	258
ST AUGUSTINE WFOY	95	9-28	27	2-26	NONE		NONE		NONE		2-26	27	2-27	32	12-16	32	NONE		NONE		NONE		NONE						294
STARKE	93	9-14+	26	12- 4	NONE		NONE		NONE		2-26	27	2-27	31	11-13	32	12- 4	26	NONE		NONE		NONE					281	259
STEINHATCHEE 6 ENE		-	19	2-27	NONE		2-27	19	2-27	19	2-27	19	2-27	19	11-12	32	12- 3	25	-		NONE		NONE				-	279	258
USHER TOWER	97	5-25	18	2-27	NONE		2-27	18	2-27	18	2-27	18	3-18	32	11-13	31	12- 4	25	NONE		NONE		NONE					280	240
* * *																													
NORTH CENTRAL 03																													
ALEXANDER SPRINGS 3 SE	96	9- 4+		-	-		-		-		-		-		11-13	30	12- 2	27	12-10	23	NONE		NONE				-	-	-
BROOKSVILLE CHIN MILL	94	8-17+	28	2-26	NONE		NONE		NONE		2-26	28	2-27	32	NONE		NONE		NONE		NONE		NONE						
BUSHNELL 2 E	95	5-25	27	2-27+	NONE		NONE		NONE		2-27	27	2-27	27	12- 4	28	12- 4	28	NONE		NONE		NONE						
CLERMONT 6 SSW	95	8-31	31	2-26	NONE		NONE		NONE		NONE		2-26	31	NONE		NONE		NONE		NONE		NONE					280	280
DAYTONA BEACH WSO AP	94	7-20	31	2-26	NONE		NONE		NONE		NONE		2-26	31	12-18	32	NONE		NONE		NONE		NONE						295
DELAND 1 SSE	95	9-28+	24	12- 4+	NONE		NONE		NONE		2-18	28	3- 1	31	11-13	30	12- 2	28	12- 3	24	NONE		NONE					287	257
INVERNESS	96	7-21+	30	2-26	NONE		NONE		NONE		NONE		2-27	31	NONE		NONE		NONE		NONE		NONE						
LISBON	95	8-31+	27	2-26	NONE		NONE		NONE		2-26	27	2-27	30	12-10	32	NONE		NONE		NONE		NONE						286
OCALA	97	9-18	24	2-27	NONE		NONE		2-27	24	2-27	24	2-27	26	11-13	29	12- 4	27	NONE		NONE		NONE					280	259
ORLANDO WSO MCCOY	95	6- 1+	32	2-26	NONE		NONE		NONE		NONE		2-26	32	NONE		NONE		NONE		NONE		NONE						
ORLANDO WSO AP		-		-	-		-		-		-		-		-		-		-		-		-		-	-	-	-	-
SAINT LEO	95	9-13+	29	2-26	NONE		NONE		NONE		NONE		2-27	32	NONE		NONE		NONE		NONE		NONE						
SANFORD EXP STATION	97	7-27	30	2-26	NONE		NONE		NONE		NONE		2-26	30	NONE		NONE		NONE		NONE		NONE						
TITUSVILLE	95	8-17+	31	2-26	NONE		NONE		NONE		NONE		2-26	31	NONE		NONE		NONE		NONE		NONE						
WEEKI WACHEE	95	8-25		-	NONE		NONE		2-27	23	2-27	23	2-27	23	12- 4	29	NONE		NONE		NONE		NONE						280
* * *																													
SOUTH CENTRAL 04																													
ARCADIA	97	9-29+	30	12-10+	NONE		NONE		NONE		NONE		2-27	30	11-13	32	NONE		NONE		NONE		NONE						259
ARCHBOLD BIOLOGIC STA	97	4- 2	27	2-11	NONE		NONE		NONE		2-11	27	2-18	32	12- 4	30	12- 5	28	NONE		NONE		NONE					297	289
AVON PARK 2 W	96	7-23	29	2-26	NONE		NONE		NONE		NONE		2-26	29	12- 4	30	NONE		NONE		NONE		NONE						281
BARTOW	101	7-27	30	2-27	NONE		NONE		NONE		NONE		2-27	30	12- 5	31	NONE		NONE		NONE		NONE						281
BRADENTON 5 ESE	98	7-29	31	12- 5+	NONE		NONE		NONE		NONE		2-27	31	12- 5	31	NONE		NONE		NONE		NONE						281
CLEARWATER	95	6- 8+	32	2-26	NONE		NONE		NONE		NONE		2-26	32	NONE		NONE		NONE		NONE		NONE						
FELLSMERE 7 SSW		-		-	-		-		-		-		-		-		-		-		-		-		-	-	-	-	-
FORT DRUM 5 NW	94	9-17+	32	2-10	NONE		NONE		NONE		NONE		2-10	32	NONE		NONE		NONE		NONE		NONE						
FORT PIERCE	94	9-29+	34	2-11	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
INDIAN LAKE ESTATES	95	4-14+	25	12-10	NONE		NONE		NONE		NONE		2-27	29	12- 2	32	12- 4	28	NONE		NONE		NONE						278
KISSIMMEE NO. 2	95	6- 1+	30	2-26	NONE		NONE		NONE		NONE		2-26	30	NONE		NONE		NONE		NONE		NONE						
LAKE ALFRED EXP STA	96	9-14+	29	2-26	NONE		NONE		NONE		NONE		2-27	31	12- 5	32	NONE		NONE		NONE		NONE						
LAKELAND WSO CI	94	9-13	31	2-26	NONE		NONE		NONE		NONE		2-26	31	NONE		NONE		NONE		NONE		NONE						281
MELBOURNE	95	9-28+	29	12- 4	NONE		NONE		NONE		NONE		NONE		12- 4	29	NONE		NONE		NONE		NONE						
MOUNTAIN LAKE	97	6- 2+	29	12- 5	NONE		NONE		NONE		NONE		2-26	32	12- 4	32	NONE		NONE		NONE		NONE						281
MYAKKA RIVER ST PARK	95	9-19+	29	12- 9	NONE		NONE		NONE		NONE		2-27	30	12- 5	29	NONE		NONE		NONE		NONE						281
OKEECHOBEE 9 W		-		-	-		-		-		-		-		-		-		-		-		-		-	-	-	-	-
OKEECHOBEE WRCN GATE 8		-		-	-		-		-		-		-		NONE		NONE		NONE		NONE		NONE						
PARRISH	98	9-20+	30	2-27	NONE		NONE		NONE		NONE		2-27	30	NONE		NONE		NONE		NONE		NONE						
PLANT CITY		-	28	2-27	NONE		NONE		NONE		2-27	28	2-27	28	-		-		-		-		-					-	-
ST PETERSBURG	96	6- 8	36	2-26	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
SARASOTA	96	5-22	31	2-27	NONE		NONE		NONE		NONE		2-27	31	NONE		NONE		NONE		NONE		NONE						
TAMPA WSO AP	94	9-20+	30	2-27	NONE		NONE		NONE		NONE		2-27	30	NONE		NONE		NONE		NONE		NONE						

See Reference Notes Following Station Index

Table 3

TEMPERATURE EXTREMES AND FREEZE DATA

FLORIDA
1974

Station	Highest	Date	Lowest	Date	Last spring minimum of 16° or below Date	Temp.	20° or below Date	Temp.	24° or below Date	Temp.	28° or below Date	Temp.	32° or below Date	Temp.	First fall minimum of 32° or below Date	Temp.	28° or below Date	Temp.	24° or below Date	Temp.	20° or below Date	Temp.	16° or below Date	Temp.	Number of days between dates 16° or below	20° or below	24° or below	28° or below	32° or below
TARPON SPGS SEWAGE PL	93	9-22+	30	2-27	NONE		NONE		NONE		NONE		2-27	30	NONE		NONE		NONE		NONE		NONE						
VENICE	98	5-31	31	2-27	NONE		NONE		NONE		NONE		2-27	31	NONE		NONE		NONE		NONE		NONE						
VERO BEACH 4 W	93	9-29+	33	2-27	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
WAUCHULA 2 N	97	5-31	29	12-10+	NONE		NONE		NONE		NONE		2-26	32	12- 5	29	NONE		NONE		NONE		NONE						282
WINTER HAVEN	96	8-29+	30	12- 5	NONE		NONE		NONE		NONE		NONE		12- 5	30	NONE		NONE		NONE		NONE						
* * *																													
EVERGLADES AND SW COAST 05																													
BELLE GLADE EXP STA	94	10- 1+	35	2-12+	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
CANAL POINT USDA	96	8-21	35	2-12+	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
CLEWISTON U S ENG	97	9-26	36	2-11	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
DEVILS GARDEN TOWER		-		-	-		-		-		-		-		NONE		NONE		NONE		NONE		NONE						
EVERGLADES	96	8-15+	35	2-28	NONE		NONE		NONE		NONE		NONE																
FLAMINGO RANGER STA		-	33	2-11	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
FORT MYERS WSO AP	95	5-15	39	2-27+	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
IMMOKALEE 3 NNW	94	9-13+	31	2-27	NONE		NONE		NONE		NONE		2-27	31	NONE		NONE		NONE		NONE		NONE						
LA BELLE		-	31	2-12+	NONE		NONE		NONE		NONE		2-12	31	12- 5	32	NONE		NONE		NONE		NONE						296
MOORE HAVEN LOCK 1	95	4- 2	36	12- 5+	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
NAPLES 2 NE	98	9-15	33	2-27	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
PUNTA GORDA 4 ENE	95	9-13		-	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
TAMIAMI TRL 40 MI BEND	97	5-29	38	2-11	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
* * *																													
LOWER EAST COAST 06																													
FORT LAUDERDALE	94	7-12+	41	2-12+	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
FT LAUDERDALE EXP STA		-	36	2-12+	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
HIALEAH	94	8-20+	43	2-27+	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
HOMESTEAD EXP STA	95	9-29	37	2-11	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
LOXAHATCHEE	94	9-28+	31	2-11	NONE		NONE		NONE		NONE		2-11	31	NONE		NONE		NONE		NONE		NONE						
MIAMI BEACH	98	7-12	43	2-27	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
MIAMI WSO AP	93	7-11+	44	2-11	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
MIAMI 12 SSW	95	7-13+	35	2-11	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
POMPANO BEACH	98	5-27	39	2-11+	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
SOUTH MIAMI 5 W	95	5-27	36	2-11	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
STUART 1 N	97	9-29	36	2-26+	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
WEST PALM BEACH WSO AP	95	5-27+	38	2-11	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
* * *																													
KEYS 07																													
KEY WEST WSO AP	90	9-29+	51	2-27	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						
KEY WEST		-		-	-		-		-		-		-		NONE		NONE		NONE		NONE		NONE						
MARATHON SHORES		-		-	-		-		-		-		-		NONE		NONE		NONE		NONE		NONE						
TAVERNIER	93	9-29	44	2-11	NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE		NONE						

See Reference Notes Following Station Index

SOIL TEMPERATURES

FLORIDA

1974

Station	Depth (IN)	Time	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
			Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes	Average	Extremes
CHIPLEY 3 E																												
	4		64.3	75 49	57.2	71 38	66.1	85 43	69.3	89 52	78.3	96 61	84.6	104 67	86.0	103 73	83.5	100 74	81.7	97 64	70.8	87 54	-	-	-	-	-	104 38
GAINESVILLE 2 WSW																												
	4		-	72 61	62.3	74 48	-	-	72.7	79 61	78.7	83 73	82.2	88 76	83.4	87 79	83.9	87 81	82.7	87 79	73.3	81 60	67.0	78 58	59.6	68 52	-	88 49
	8		-	71 64	61.9	71 54	-	-	72.5	76 67	77.9	80 75	80.8	83 76	82.0	84 79	82.2	84 81	81.7	84 79	73.4	80 70	67.9	74 61	59.7	66 55	-	84 54
MILTON EXP STATION																												
	4		67.8	78 53	60.8	74 40	72.1	91 48	75.8	98 54	85.0	104 63	90.3	108 74	91.8	109 77	88.4	107 75	86.0	104 67	75.9	94 55	63.8	89 43	56.6	76 39	76.1	109 39
MONTICELLO 3 W																												
	4		66.8	80 48	59.2	75 39	67.4	86 44	73.9	93 50	80.9	101 61	85.7	103 70	86.4	102 74	85.0	100 72	83.0	99 67	71.5	89 55	62.3	87 43	54.5	73 39	73.0	103 39
QUINCY 3 SSW																												
	2		-	- -	-	- -	-	- -	-	- -	-	- -	86.3	112 67	88.3	112 72	85.5	113 68	84.8	110 58	73.4	98 48	64.4	93 37	54.5	79 29	-	113 -
	4		-	- -	-	- -	-	- -	-	- -	-	- -	84.4	107 68	86.6	108 73	83.9	108 71	83.1	105 62	73.1	93 49	64.1	90 40	54.2	78 35	-	108 -
	8		-	- -	-	- -	-	- -	-	- -	-	- -	81.4	97 70	84.0	97 71	81.6	96 72	81.1	94 69	72.7	86 60	63.9	82 48	54.3	70 42	-	97 -

See Reference Notes Following Station Index

Table 4

TOTAL EVAPORATION AND WIND MOVEMENT

FLORIDA
1974

Station		Jan	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov	Dec	Annual
* * * NORTHWEST 01														
MILTON EXP STATION	EVAP	2.63B	3.54B	5.43B	6.49	7.20	7.72	6.81	5.92B	5.18B	5.29	3.09	2.43	61.73
	WIND	-	-	1799B	1825	1409	972	609	477	726	832	873	1299	-
	MAX	72.8	69.1	79.9	82.9	91.2	95.2	97.1	95.1	91.4	81.5	71.6	65.2	82.8
	MIN	58.2	47.1	55.7	58.1	66.8	68.9	72.3	72.7	69.0	55.0	50.5	47.5	60.2
WOODRUFF DAM	EVAP	2.28B	3.72B	5.19	6.43B	7.03	8.01B	7.43	6.37	6.43B	6.21	3.77	2.42B	65.29
	WIND	1123	2339	1822	2290	1379	1282	992	1074	1896	2018	168B	2046	19949
* * * NORTH 02														
GAINESVILLE 2 WSW	EVAP	3.17	4.14	5.69	7.55	7.92	7.01B	6.44	5.75	5.60	5.48	3.76	3.00B	65.51
	WIND	1206	1772	1772	1771	1385	1011	929	741	874	1757	1213	1192	15623
	MAX	76.4	70.3	79.0	83.6	90.4	92.4	91.9	93.7	92.4	80.3	73.0	65.2	82.4
	MIN	58.1	47.0	55.4	55.9	65.2	68.1	69.3	70.5	69.9	56.5	51.5	47.9	59.6
LAKE CITY 2 E	EVAP	2.93B	4.18	6.18B	7.30B	7.41B	7.65B	8.04B	6.68B	5.43B	5.39B	3.65B	2.53B	67.37
	WIND	1434	1832	2023	1871	1609	1154	977	961	1186	1365	1156	1559	17127
	MAX	76.0	70.6	78.5	83.5	90.8	-	94.1	95.3	92.4	81.5	73.8	64.8	-
	MIN	57.7	45.8	53.8	56.1	65.9	-	71.9	71.7	70.9	56.7	50.3	46.3	-
* * * NORTH CENTRAL 03														
LISBON	EVAP	3.22	4.09	5.50	6.64	7.04	6.36	5.93	5.42	4.44	4.49	3.35	2.57	59.05
	WIND	495	865	760	820	715	455	430	335	350	515	435	665	6840
* * * SOUTH CENTRAL 04														
LAKE ALFRED EXP STA	EVAP	3.35	4.42	6.42	8.09	8.03	6.87	6.37	7.06	6.64	5.84	4.26	2.73	70.08
	WIND	965	1468	1580	1709	1271	1159	949	1037	1109	1560	1146	1161	15114
	MAX	74.4	69.2	77.8	80.6	87.4	89.1	90.3	89.9	88.9	78.1	72.5	63.2	80.1
	MIN	55.8	44.9	54.7	52.7	61.7	66.2	65.2	65.8	65.6	54.3	50.1	43.4	56.7
VERO BEACH 4 W	EVAP	2.69B	4.32B	6.24B	6.46B	7.86	6.16B	5.43B	5.97B	5.57B	5.20B	3.24	2.88B	62.12
	WIND	703	1336	1395	1014	831	548	308B	253	295	876B	792	808	9159
	MAX	78.5	75.6	85.1	87.0	91.7	92.7	91.5	95.5	95.3	83.8	78.2	69.8	85.4
	MIN	63.3	51.9	62.1	62.6	69.5	73.4	74.3	75.2	76.0	66.8	61.0	53.9	65.8
* * * EVERGLADES AND SW COAST 05														
BELLE GLADE EXP STA	EVAP	3.07	4.47	5.59	6.10B	6.63	5.38B	5.54B	5.56	4.80	4.40	3.01	2.45	57.00
	DEP	.25	.43	.18	.37	.52	1.05	.82	.73	.58	.59	.85	.78	6.29
	MAX	81.5	77.1	87.0	89.1	95.4	95.1	95.1	95.7	94.9	83.6	78.5	72.9	87.2
	MIN	59.6	49.6	58.3	57.1	65.0	69.2	69.2	70.1	70.9	62.3	58.1	54.8	62.0
CLEWISTON U S ENG	EVAP	3.23	4.41	6.66	7.56	7.91B	6.34B	6.19B	5.29B	5.89	6.06	3.69	2.40	65.63
	DEP	.32	.87	1.78	1.94	1.58	.77	.93	.20	1.25	1.64	.19	.35	11.12
	WIND	335	1121	1017	1129	980	569	469	326	303	1235	701	605	8790
	MAX	81.2	78.4	89.1	91.7	95.6	96.1	97.3	97.2	-	88.1	83.0	75.2	-
	MIN	62.8	52.2	63.2	63.4	69.1	72.5	73.1	74.2	-	66.5	60.7	54.8	-
FLAMINGO RANGER STA	EVAP	-	-	-	-	-	-	7.19B	-	-	-	-	5.06B	-
	WIND	1522	-	-	-	-	-	1154	1289B	1280B	1512B	-	1247B	-
	MAX	84.4	-	-	-	-	-	-	-	-	-	-	-	-
	MIN	66.0	-	-	-	-	-	-	-	-	-	-	-	-
MOORE HAVEN LOCK 1	EVAP	4.27	5.14B	7.84	8.79	8.92	7.00B	7.17B	7.31B	7.14B	7.02	5.06	3.20	78.84
	DEP	.67	.89	1.73	1.50	.82	.45	.23	.74	.82	1.45	.77	.30	8.87
	WIND	1021	1510	1800	1997	1495	995	805	1310	1455	2590	1640	1250	17868
	MAX	82.9	79.3	87.5	88.9	94.4	95.6	97.8	97.1	98.6	86.9	82.0	75.8	88.9
	MIN	64.2	54.1	62.0	61.1	68.9	72.6	74.0	75.3	74.8	66.3	60.8	55.3	65.8
TAMIAMI TRL 40 MI BEND	EVAP	3.65	4.21	5.14	6.56B	6.38B	4.40B	5.86B	6.34B	5.44	5.63	4.77B	3.28B	61.66
	DEP	.27	.16	.47	.08	.66	2.08	.53	.07	.15	.56	.90	.14	1.71
	WIND	842	1139	1046	1343	1132	770	630	731B	607	1512	979	981	11712
	MAX	84.4	80.3	88.4	88.0	92.5	91.4	94.6	95.9	98.7	91.0	85.9	79.6	89.2
	MIN	64.1	55.2	60.1	61.0	67.5	71.4	73.6	72.6	76.0	67.3	62.9	57.4	65.8
* * * LOWER EAST COAST 06														
FT LAUDERDALE EXP STA	EVAP	3.83B	4.10B	7.01B	8.58B	9.26B	6.46B	-	-	-	-	-	-	-
	WIND	1184B	1512	1557B	-	-	-	-	-	-	-	-	-	-
HIALEAH	EVAP	4.19B	-	-	-	7.89B	6.96B	7.07B	8.02B	-	-	4.88B	5.15B	-
	DEP	.41	-	-	-	.29	.03	.25	1.17	-	-	.63	1.69	-
	WIND	209	-	-	-	-	-	-	-	-	-	-	-	-
	MAX	-	-	-	-	92.3	94.4	94.7	96.6	-	87.3	81.7	78.0	-
	MIN	-	-	-	-	70.2	73.7	73.8	71.3	-	67.5	62.9	60.3	-

See Reference Notes Following Station Index

STATION INDEX

Station	Index No.	Division No.	County	Drainage †	Latitude	Longitude	Elevation	Years of record: Temp.	Years of record: Precip.	Years of record: Evap.	Opened or closed during yr.: Month opened	Opened or closed during yr.: Month closed	Refer to tables
ALEXANDER SPRINGS 3 SE	0070	03	LAKE	8	29 03	81 33	65	16	16		FEB		1 2 3
APALACHICOLA WSO CI R	0211	01	FRANKLIN	5	29 44	84 59	13	72	72				1 2 3 C
ARCADIA	0228	04	DE SOTO	5	27 14	81 51	63	71	74				1 2 3
ARCHBOLD BIOLOGIC STA	0236	04	HIGHLANDS	7	27 11	81 21	140	6	6				1 2 3
AVON PARK 2 W	0369	04	HIGHLANDS	7	27 36	81 32	154	82	77				1 2 3
BABSON PARK	0390	04	POLK	7	27 50	81 31	145		20				2
BARTOW	0478	04	POLK	5	27 54	81 51	120	88	88				1 2 3
BELLE GLADE EXP STA	0611	05	PALM BEACH	7	26 40	80 38	16	50	50	34			1 2 34
BELLE GLADE HRCN GATE	0616	05	PALM BEACH	7	26 42	80 43	31						C
BITHLO	0758	03	ORANGE	8	28 33	81 07	65		16				2
BLACKMAN 3 WNW	0765	01	OKALOOSA	5	30 57	86 41	220						C
BLOUNTSTOWN	0804	01	CALHOUN	1	30 27	85 03	60	62	62				1 2 3
BOCA RATON	0845	06	PALM BEACH	2	26 22	80 05	13						C
BRADENTON 5 ESE	0945	04	MANATEE	5	27 27	82 28	20	10	10				1 2 3
BRISTOL	1020	01	LIBERTY	1	30 25	84 59	160						C
BROOKSVILLE CHIN HILL	1046	03	HERNANDO	5	28 37	82 22	240	82	82				1 2 3
BROOKSVILLE 7 SSW	1048	03	HERNANDO	5	28 28	82 27	67						C
BUSHNELL 2 E	1163	03	SUMTER	5	28 40	82 05	75	38	38				1 2 3
CANAL POINT GATE 5	1271	05	PALM BEACH	7	26 52	80 38	36						C
CANAL POINT USDA	1276	05	PALM BEACH	7	26 52	80 37	30	22	22				1 2 3
CARRABELLE 1 NNW	1356	01	FRANKLIN	5	29 52	84 40	10	76	76				1 2 3
CARYVILLE	1388	01	WASHINGTON	3	30 46	85 49	50		46				2
CEDAR KEY 1 WSW	1432	02	LEVY	5	29 08	83 03	7	86	87				1 2 3
CHIPLEY 3 E	1544	01	WASHINGTON	3	30 47	85 29	130	36	36				1 2 3 G
CLEARWATER	1632	04	PINELLAS	5	27 58	82 46	65	15	15				1 2 3
CLERMONT 6 SSW	1641	03	LAKE	8	28 29	81 47	125	82	82				1 2 3
CLEWISTON U S ENG	1654	05	HENDRY	7	26 45	80 55	20	26	26	34			1 2 34C
CORNWELL 4 NW	1869	04	HIGHLANDS	7	27 24	81 10	40		20				2
CRESCENT CITY	1978	02	PUTNAM	8	29 26	81 31	58		76				2
CRESTVIEW RADIO WJSB	1984	01	OKALOOSA	5	30 46	86 35	240	16	16			DEC	1 2 3 C
CROSS CITY 2 WNW	2008	02	DIXIE	5	29 39	83 10	42	15	15				1 2 3 C
DANIA 4 WNW	2114	06	BROWARD	2	26 04	80 12	7		34			APR	2
DAYTONA BEACH WSO AP R	2158	03	VOLUSIA	2	29 11	81 04	30	61	61				1 2 3 C
DE FUNIAK SPRINGS	2220	01	WALTON	3	30 44	86 07	230	76	76				1 2 3
DELAND 1 SSE	2229	03	VOLUSIA	8	29 01	81 18	25	76	72				1 2 3
DE SOTO CITY 8 SW	2288	04	HIGHLANDS	7	27 22	81 31	85		20				2
DEVILS GARDEN TOWER	2298	05	HENDRY	7	26 36	81 08	20	19	19				1 2 3
DOWLING PARK 1 W	2391	02	LAFAYETTE	10	30 15	83 15	54						C
EVA	2834	03	LAKE	5	28 23	81 49	117		11				2
EVERGLADES	2850	05	COLLIER	4	25 51	81 23	5	48	48				1 2 3
FEDERAL POINT	2915	02	PUTNAM	8	29 45	81 32	5	83	83				1 2 3
FELLSMERE 7 SSW	2936	04	INDIAN RIVER	2	27 41	80 39	20	62	62				1 2 3
FERNANDINA BEACH	2944	02	NASSAU	2	30 39	81 28	13	78	78				1 2 3
FLAMINGO RANGER STA	3020	05	MONROE	5	25 09	80 55	3	23	23	13			1 2 34
FORT DRUM 5 NW	3137	04	OKEECHOBEE	7	27 35	80 50	71	19	19				1 2 3
FORT GREEN 12 WSW	3153	04	MANATEE	5	27 34	82 08	112		20				2
FORT LAUDERDALE	3163	06	BROWARD	2	26 06	80 12	16	61	61				1 2 3
FT LAUDERDALE EXP STA	3171	06	BROWARD	2	26 05	80 15	6	22	22	22			1 2 34
FORT MYERS WSO AP R	3186	05	LEE	5	26 35	81 52	15	83	83				1 2 3 C
FORT PIERCE	3207	04	ST LUCIE	2	27 28	80 21	25	74	74				1 2 3
FOUNTAIN 3 SSE	3230	01	BAY	5	30 26	85 25	140	20	20				1 2 3
GAINESVILLE 2 WSW	3321	02	ALACHUA	8	29 38	82 22	92	21	21	21			1 2 34CG
GLEN ST MARY 1 W	3470	02	BAKER	9	30 16	82 11	128	79	79				1 2 3
GRACEVILLE	3538	01	JACKSON	3	30 58	85 31	155						C
GRADY	3543	02	LAFAYETTE	10	29 57	82 57	30						C
HART LAKE	3840	03	ORANGE	7	28 23	81 11	60		32				2
HIALEAH	3909	06	DADE	2	25 50	80 17	12	34	34				1 2 34
HIGH SPRINGS	3956	02	ALACHUA	10	29 50	82 36	65	30	30				1 2 3
HILLSBOROUGH RVR ST PK	3986	03	HILLSBOROUGH	5	28 09	82 14	53		30				2
HOMESTEAD EXP STA	4091	06	DADE	2	25 30	80 30	11	64	64				1 2 3 C
IMMOKALEE 3 NNW	4210	05	COLLIER	5	26 28	81 26	35	5	5				1 2 3
INDIAN LAKE ESTATES	4242	04	POLK	7	27 48	81 21	85	17	17				1 2 3
INGLIS 5 SSW	4273	02	CITRUS	5	28 58	82 42	5						C
INVERNESS	4289	03	CITRUS	5	28 50	82 20	50	75	75				1 2 3
ISLAND GROVE	4327	02	ALACHUA	8	29 27	82 06	74		20				2
ISLEWORTH	4332	03	ORANGE	8	28 29	81 32	115		57				2
JACKSONVILLE WSO AP R	4358	02	DUVAL	8	30 30	81 42	26	38	38				1 2 3 C
JACKSONVILLE BEACH	4366	02	DUVAL	2	30 17	81 24	10	33	33				1 2 3
JASPER	4394	02	HAMILTON	10	30 31	82 57	147	62	62				1 2 3
KENDALL 2 E	4518	06	DADE	2	25 41	80 17	18		33			APR	2
KEY WEST WSO AP	4570	07	MONROE	5	24 33	81 45	4	30	30				1 2 3 C
#KEY WEST	4575	07	MONROE	5	24 34	81 48	6		104				1 2 3
KISSIMMEE NO. 2	4625	04	OSCEOLA	7	28 17	81 25	60	79	84				1 2 3
LA BELLE	4662	05	HENDRY	5	26 45	81 26	16	44	44				1 2 3
LAKE ALFRED EXP STA	4707	04	POLK	5	28 06	81 43	145	58	58	8			1 2 34
LAKE CITY 2 E	4731	02	COLUMBIA	10	30 11	82 36	195	91	91	8			1 2 34
#LAKELAND WSO CI R	4797	04	POLK	5	28 02	81 57	214	59	59				1 2 3 C
LIGNUMVITAE KEY	5035	07	MONROE	2	24 54	80 42	10						C
LISBON	5076	03	LAKE	8	28 52	81 47	68	16	16	16			1 2 34C
LIVE OAK	5099	02	SUWANNEE	10	30 17	82 58	120	23	23				1 2 3

STATION INDEX

Station	Index No.	Division No.	County	Drainage ‡‡	Latitude	Longitude	Elevation	Years of record: Temp.	Years of record: Precip.	Years of record: Evap.	Opened or closed during yr.: Month opened	Opened or closed during yr.: Month closed	Refer to tables
LOXAHATCHEE	5182	06	PALM BEACH	7	26 41	80 16	14	34	34				1 2 3 C
LYNNE	5237	03	MARION	8	29 12	81 56	85						C
MADISON	5275	02	MADISON	10	30 28	83 25	190	71	74				1 2 3
MARATHON SHORES	5351	07	MONROE	5	24 44	81 03	8	25	25				1 2 3
MARINELAND	5391	02	FLAGLER	2	29 40	81 13	5						C
MAYO	5539	02	LAFAYETTE	10	30 03	83 10	65	25	25				1 2 3
MELBOURNE	5612	04	BREVARD	2	28 04	80 37	10	37	37				1 2 3 C
MIAMI BAYFRONT PARK	5653	06	DADE	2	25 47	80 11	6	21	21			APR	1 2 3
#MIAMI BEACH	5658	06	DADE	2	25 47	80 08	5	34	34				1 2 3 C
MIAMI WSO AP R	5663	06	DADE	2	25 48	80 16	7	36	36				1 2 3 C
MIAMI WSO CI	5668	06	DADE	2	25 43	80 17	15						C
MIAMI 12 SSW	5678	06	DADE	2	25 39	80 18	10	51	51				1 2 3
MILTON EXP STATION	5793	01	SANTA ROSA	5	30 47	87 08	217	27	27	13			1 2 34 G
MONTICELLO 3 W	5879	01	JEFFERSON	5	30 32	83 55	145	71	71				1 2 3 CG
MOORE HAVEN LOCK 1	5895	05	GLADES	7	26 50	81 05	22	56	56	34			1 2 34C
MOUNTAIN LAKE	5973	04	POLK	7	27 56	81 36	125	53	53				1 2 3
MYAKKA RIVER ST PARK	6065	04	SARASOTA	5	27 14	82 19	20	19	31				1 2 3
NAPLES 2 NE	6078	05	COLLIER	5	26 10	81 47	4	34	34				1 2 3
NICEVILLE	6240	01	OKALOOSA	5	30 31	86 30	60	48	48				1 2 3 C
NORTH NEW RVR CANAL 2	6323	05	BROWARD	7	26 20	80 32	16						C
OCALA	6414	03	MARION	5	29 12	82 05	75	76	84				1 2 3
OKEECHOBEE 9 W	6480	04	OKEECHOBEE	7	27 14	80 58	20	4	11			OCT	1 2 3
OKEECHOBEE HRCN GATE 6	6485	04	OKEECHOBEE	7	27 13	80 48	45	50	52		NOV		1 2 3
ORANGE CITY	6584	03	VOLUSIA	8	28 56	81 18	52						C
ORLANDO WSO MCCOY	6628	03	ORANGE	8	28 26	81 20	85	1	1		FEB		1 2 3 C
ORTONA LOCK 2	6657	05	GLADES	7	26 47	81 18	20						C
PALATKA	6753	02	PUTNAM	8	29 39	81 39	20	49	49				1 2 3
PANACEA 4 SSE	6828	01	WAKULLA	5	29 58	84 22	10						C
PANAMA CITY 5 NE	6842	01	BAY	5	30 13	85 36	32	4	4				1 2 3 C
PARRISH	6880	04	MANATEE	5	27 35	82 26	45	17	17				1 2 3 C
PENNSUCO 5 WNW	6988	05	DADE	2	25 56	80 27	10						C
PENSACOLA WSO AP	6997	01	ESCAMBIA	5	30 28	87 12	112	30	30				1 2 3 C
PERRINE	7020	06	DADE	2	25 36	80 21	10		14		DEC	APR	2
PERRY	7025	02	TAYLOR	5	30 08	83 36	45	52	52				1 2 3
PLANT CITY	7205	04	HILLSBOROUGH	5	28 01	82 08	121	78	78				1 2 3
POMPANO BEACH	7254	06	BROWARD	2	26 14	80 09	15	34	34		JUL		1 2 3
PORT MAYACA S L CANAL	7293	05	MARTIN	7	26 58	80 37	39						C
PUNTA GORDA 4 ENE	7397	05	CHARLOTTE	5	26 58	81 59	10	10	10				1 2 3
QUINCY 3 SSW	7429	01	GADSDEN	6	30 36	84 33	245	7	7				1 2 3 G
RAIFORD STATE PRISON	7440	02	UNION	10	30 04	82 11	120						C
ROYAL PALM RANGER STA	7760	06	DADE	5	25 23	80 36	7		26		MAY		2
ST AUGUSTINE WFOY	7826	02	ST JOHNS	2	29 54	81 19	8	2	2				1 2 3
SAINT LEO	7851	03	PASCO	5	28 20	82 16	190	80	82				1 2 3 C
ST LUCIE NEW LOCK 1	7859	06	MARTIN	2	27 07	80 17	15						C
ST MARKS 5 SSE	7867	01	WAKULLA	5	30 06	84 10	10	47	47				1 2 3
ST PETERSBURG	7886	04	PINELLAS	5	27 46	82 38	8	60	60				1 2 3 C
SANFORD EXP STATION	7982	03	SEMINOLE	8	28 48	81 14	15	19	19				1 2 3
SARASOTA	8021	04	SARASOTA	5	27 21	82 32	30	26	26				1 2 3
SMITH CREEK	8290	01	WAKULLA	6	30 12	84 40	60	5	5				1 2 3
SOUTH MIAMI 5 W	8396	06	DADE	2	25 42	80 21	8	21	21				1 2 3
STARKE	8527	02	BRADFORD	8	29 56	82 06	162	17	17				1 2 3
STEINHATCHEE 6 ENE	8565	02	DIXIE	5	29 43	83 18	35	17	17				1 2 3
STUART 1 N	8620	06	MARTIN	2	27 13	80 15	10	39	39				1 2 3
TALLAHASSEE WSO AP	8758	01	LEON	5	30 23	84 22	55	88	90				1 2 3 C
TAMIAMI TRL 40 MI BEND	8780	05	DADE	4	25 45	80 50	15	33	33	34			1 2 34C
TAMPA WSO AP R	8788	04	HILLSBOROUGH	5	27 58	82 32	19	85	85				1 2 3 C
TARPON SPGS SEWAGE PL	8824	04	PINELLAS	5	28 09	82 45	8	89	84				1 2 3
TAVERNIER	8841	07	MONROE	2	25 01	80 31	5	38	38				1 2 3
TITUSVILLE	8942	03	BREVARD	2	28 35	80 50	30	80	82				1 2 3
TRAIL-GLADE RANGES	9010	05	DADE	2	25 48	80 29	13						C
USHER TOWER	9120	02	LEVY	5	29 25	82 49	33	19	19				1 2 3
VENICE	9176	04	SARASOTA	5	27 06	82 26	8	20	20				1 2 3 C
VENUS 4 SSW	9184	05	GLADES	7	27 02	81 21	62						C
VERO BEACH 4 W	9219	04	INDIAN RIVER	2	27 38	80 27	20	10	10	10			1 2 34C
WAUCHULA 2 N	9401	04	HARDEE	5	27 34	81 49	119	42	42				1 2 3
WAUSAU 2 SSW	9415	01	WASHINGTON	3	30 37	85 35	145						C
WEEKI WACHEE	9430	03	HERNANDO	5	28 31	82 35	20	6	6				1 2 3
#WEST PALM BEACH WSO AP R	9525	06	PALM BEACH	2	26 41	80 06	15	36	36				1 2 3 C
WEWAHITCHKA	9566	01	GULF	1	30 07	85 12	45	19	19				1 2 3
WINTER HAVEN	9707	04	POLK	5	28 01	81 45	136	34	34				1 2 3
#WOODRUFF DAM	9795	01	GADSDEN	1	30 43	84 52	107	19	19	16			1 2 34C

REFERENCE NOTES

Additional information regarding the climate of this State may be obtained by writing to the National Climatic Center, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA" for this State.

AVERAGES. Division averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

DIMENSIONAL UNITS. Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Service type pan of 4-foot diameter unless otherwise shown by footnote following the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1941-1970. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

DIVISIONS, as used in this publication, became effective with data for May 1956.

STATION NAMES: Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the post office.

LATE REPORTS AND CORRECTIONS will be carried in the June and December issues of Climatological Data.

DAILY SOIL TEMPERATURES TABLE:

Chipley 3 E	: Sandy loam soil, bare, 5 percent slope to the northwest. Palmer mercury-in-steel thermometer. Max and min for 24 hour period ending at 7:30 a.m.
Gainesville 2 WSW	: Arredonda fine sand, Bahia grass sod covered. Little slope. Palmer dial type thermometers. Max and min for 24 hour period ending at 4.30 p.m.
Milton Exp Station	: Sandy loam soil, bare. 2 percent slope to the east. Palmer mercury-in-steel thermometer Max and min for 24-hour period ending at 4 p m.
Monticello 3 W	: Sandy loam soil, bare. 2 percent slope to the north. Palmer mercury-in steel thermometer. Max and min for 24-hour period ending 8 a m.
Quincy 3 SSW	: Orangeburg loamy fine sand, bare. 0-2 percent slope direction unknown. Palmer dial type thermometers.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- \- No record.
- 4 Also on earlier date (dates) or months.
- * Amount included in following measurement.
- // Gage is equipped with a windshield.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing; if average value is entered, less than 10 days record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage. (The amounts are essentially accurate but may vary slightly from the amounts to be published later in Hourly Precipitation Data.)
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two year period.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- # Thermometers are generally exposed in a shelter located a few feet above sod covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- ‡ DRAINAGE CODE: 1-APALACHICOLA 2-ATLANTIC 3-CHOCTAWHATCHEE 4-EVERGLADES 5-GULF 6-OCHLOCKONEE 7-OKEECHOBEE 8-ST. JOHNS 9-ST. MARY 10-SUWANNEE
- C Data for recording rain gage stations processed for special purposes and published in Hourly Precipitation Data. Length of record for recorder-only stations may be found in the annual issue of Hourly Precipitation Data.
- G Soil temperatures published.

Years of record as shown in the Station Index are approximate since gaps in records may not have been considered in arriving at the totals shown.

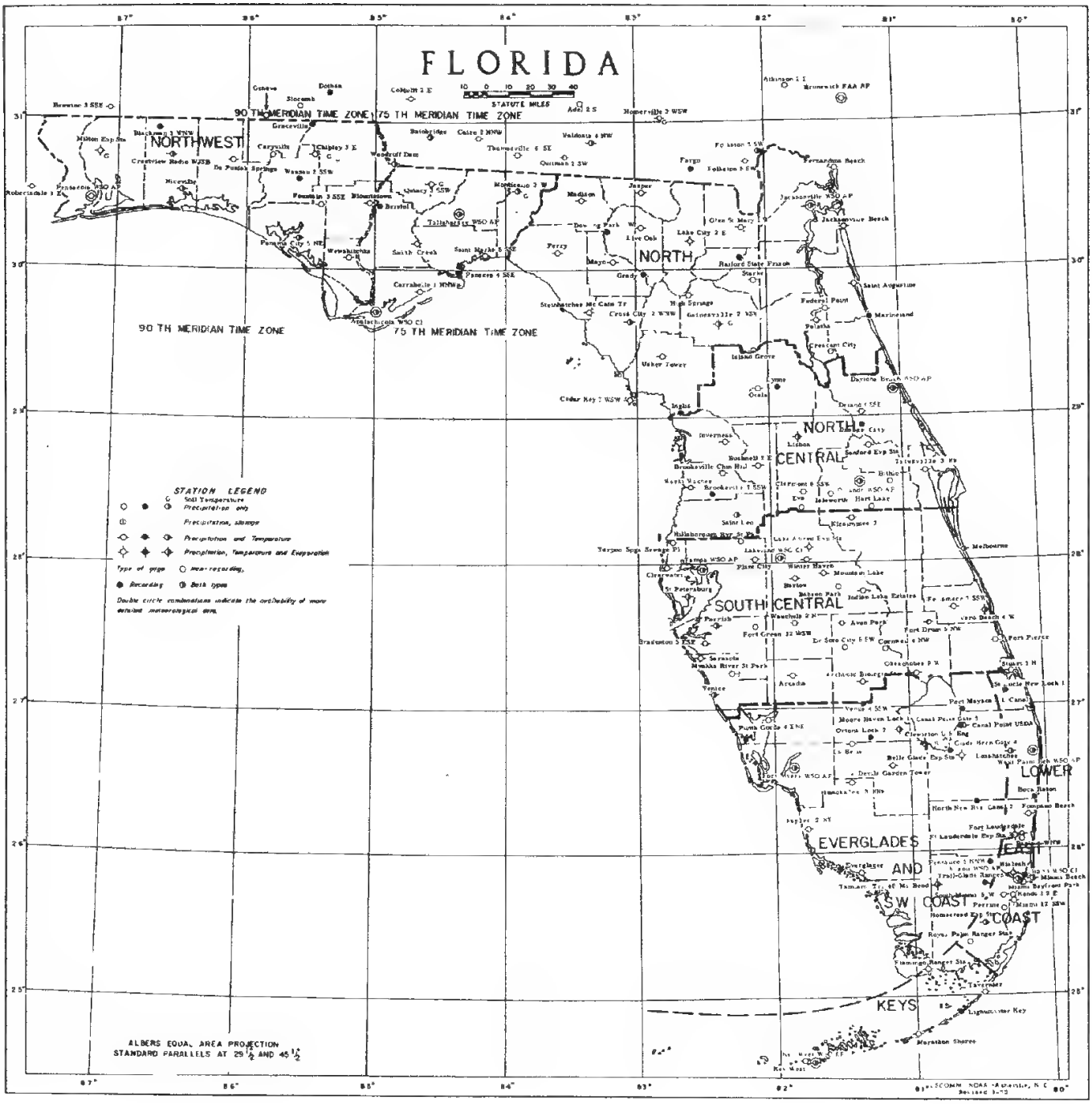
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1955 may be found in the publication "Substation History" for this State, price 35 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 15 cents. These publications may be obtained from the National Climatic Center at the address shown above.

Subscription Price: $4.50 a year for each section including annual summary, $4.70 additional for foreign mailing. 35¢ single copy, 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to. National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Haggard
Director, National Climatic Center

USCOMM-NOAA-ASHEVILLE, N C. 2/26/75-1300


FLORIDA
STATUTE MILES
90 TH MERIDIAN TIME ZONE
75 TH MERIDIAN TIME ZONE
NORTHWEST
NORTH
NORTH CENTRAL
SOUTH CENTRAL
LOWER EVERGLADES AND SW COAST
EAST COAST
KEYS
STATION LEGEND
Soil Temperature
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data.
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2 AND 45 1/2

Station: BELLE GLADE, FLORIDA

Drainage Basin: Lake Okeechobee
Lat. 26° 40' Long. 80° 38'

County: PALM BEACH
Elev. (ft.) 16

CLIMATOLOGICAL SUMMARY

(Based on U. S. Weather Bureau Cooperative Observers' record, 1924-1952)

TEMPERATURE

	Average			Extremes				Avg. No. of days	
	Max.	Min.	Mean	Highest	Year	Lowest	Year	90° or above	32° or below
Jan.	75.5	54.2	64.9	89	1929	24	1940	0	1
Feb.	76.9	53.8	65.4	92	1928	27	1947	*	*
Mar.	79.5	56.3	67.9	93	1928	27	1941	*	*
Apr.	82.9	60.3	71.6	95	1945	33	1931	3	0
May	86.5	64.7	75.6	95	1950%	44	1928	9	0
June	88.5	70.1	79.3	98	1950	54	1933%	18	0
July	90.5	72.1	81.3	100	1931	62	1931	22	0
Aug.	90.5	72.8	81.7	99	1931	61	1945	24	0
Sep.	85.3	69.4	77.4	96	1942	62	1931	15	0
Oct.	84.4	68.5	76.5	94	1950%	40	1943	2	0
Nov.	78.7	60.6	69.7	91	1948	32	1940	*	*
Dec.	76.0	55.6	65.8	89	1941	25	1934	0	*
Year	82.9	63.2	73.1	100	1931	24	1940	93	1

*Less than one half
%Also in earlier years

RAINFALL

	Average	Greatest day amount & Year	Greatest month amount & year	Lowest Month amount & year	Average No. days .01 or more
Jan.	1.59	3.42 - 1948	5.39 - 1926	0.11 - 1939	6
Feb.	1.66	2.67 - 1952	5.55 - 1941	0.03 - 1944	5
Mar.	3.02	6.53 - 1947	10.97 - 1947	0.33 - 1945	7
Apr.	3.36	4.12 - 1941	8.22 - 1948	0.01 - 1946	7
May	4.17	2.65 - 1951	9.38 - 1925	1.08 - 1935	9
June	9.51	6.96 - 1942	24.11 - 1942	0.59 - 1931	16
July	8.25	3.78 - 1944	15.30 - 1951	3.23 - 1931	18
Aug.	8.28	6.74 - 1949	16.38 - 1944	2.65 - 1938	17
Sep.	9.00	7.10 - 1948	19.28 - 1948	2.70 - 1950	17
Oct.	5.22	4.80 - 1924	15.84 - 1924	0.49 - 1925	11
Nov.	2.34	10.90 - 1932	12.44 - 1932	0.15 - 1939	6
Dec.	1.49	3.98 - 1940	7.09 - 1949	0.06 - 1951	6
Year	57.89	10.90 - 1932	24.11 - 1942	0.01 - 1946	125

MONTHLY AND ANNUAL MEAN TEMPERATURES. BELLE GLADE, PALM BEACH COUNTY, FLORIDA
Compiled at Weather Bureau Office, Jacksonville, Fla.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1924	----	----	----	----	----	80.2	80.2	81.9	79.0	74.2	68.4	67.2	----
1925	67.2	62.1	64.8	67.9	72.7	77.4	79.4	80.0	79.7	76.3	67.6	64.2	71.6
1926	61.6	61.6	63.1	70.6	73.2	77.4	79.6	81.6	81.2	76.6	68.3	66.2	71.8
1927	60.0	67.0	65.6	69.8	75.4	80.0	80.0	80.5	78.6	75.0	68.4	62.2	71.9
1928	59.0	66.6	69.2	70.4	71.5	78.0	79.7	80.2	79.5	77.1	67.8	64.0	71.9
1929	67.4	66.4	68.4	71.2	75.2	77.0	78.2	79.8	79.0	71.8	71.5	62.8	72.4
1930	66.6	64.5	63.6	69.5	74.6	77.0	80.2	80.0	79.4	73.4	65.8	59.2	71.2
1931	58.7	61.4	60.4	66.7	72.3	78.0	82.2	81.8	79.6	75.0	69.4	70.6	71.3
1932	66.8	68.4	64.8	69.7	73.9	77.4	79.6	79.4	78.2	74.6	65.8	67.1	72.1
1933	64.8	68.0	65.2	71.2	76.4	76.6	79.9	79.4	80.2	76.1	65.4	64.7	72.3
1934	63.7	62.4	66.6	70.2	75.4	78.2	79.2	79.9	79.8	76.0	68.0	63.4	71.9
1935	63.0	63.0	69.0	71.1	76.1	77.4	79.4	80.0	79.0	75.8	68.6	56.6	71.6
1936	64.5	63.8	65.7	70.6	73.8	77.0	81.2	80.6	79.2	78.0	68.0	67.1	72.5
1937	70.8	64.6	66.1	70.3	74.0	78.2	80.0	80.4	78.8	73.8	67.0	63.2	72.3
1938	62.6	65.2	68.0	69.8	75.4	77.6	79.0	79.8	78.5	72.6	71.1	63.7	71.9
1939	64.0	70.0	70.0	72.4	74.4	78.4	79.7	79.0	79.8	76.5	67.4	62.4	72.8
1940	56.2	60.4	65.8	68.3	72.6	79.0	81.0	80.8	78.0	72.9	68.5	68.4	71.0
1941	62.4	60.6	63.8	71.4	72.9	79.7	81.0	82.2	80.4	78.3	71.2	69.1	72.8
1942	61.4	59.0	66.3	69.2	74.8	79.6	82.6	81.2	80.6	74.8	68.8	66.5	72.1
1943	65.3	61.0	68.0	69.8	75.6	78.2	79.6	80.2	79.4	72.6	68.0	63.6	71.8
1944	62.2	67.6	70.4	73.2	73.4	80.0	80.8	80.4	80.1	72.6	66.0	61.8	72.4
1945	62.6	66.7	70.4	75.0	73.9	79.4	79.8	80.6	80.0	76.2	67.4	63.2	72.9
1946	64.4	66.2	69.4	71.1	76.3	78.2	80.0	80.4	79.8	76.2	73.7	69.4	73.8
1947	70.0	58.0	65.4	76.2	76.0	78.6	79.5	81.8	80.4	77.0	73.8	67.6	73.7
1948	63.4	67.9	73.5	73.2	76.7	79.4	80.4	80.3	79.4	75.5	75.2	69.9	74.6
1949	66.1	70.7	66.9	72.7	75.3	78.7	80.6	80.5	80.1	76.9	65.5	67.8	73.5
1950	69.3	66.2	68.7	67.1	76.8	80.3	80.2	80.3	80.2	76.6	66.1	60.2	72.6
1951	61.3	62.1	66.8	69.7	73.5	78.0	78.8	80.7	79.9	75.5	67.5	67.6	71.8
1952	63.6	61.5	67.2	66.8	74.5	79.9	79.9	80.5	79.7	75.8	68.8	61.2	71.6

MONTHLY AND ANNUAL RAINFALL, (INCHES AND HUNDREDTHS) BELLE GLADE, FLORIDA
Compiled at Weather Bureau Office, Jacksonville, Fla.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1924	----	----	----	----	----	4.83	6.59	3.72	8.49	15.84	0.62	0.22	----
1925	3.53	2.43	2.37	3.78	9.38	5.61	5.56	12.36	4.17	0.49	1.14	2.84	53.66
1926	5.39	0.66	1.48	1.81	3.69	9.29	10.57	10.40	13.60	3.58	0.91	0.55	61.93
1927	0.32	2.90	2.18	2.44	3.19	7.08	12.77	11.45	6.41	4.50	0.43	0.42	54.09
1928	0.31	1.66	3.83	1.78	2.61	9.20	8.11	11.31	15.64	3.26	1.07	0.25	59.03
1929	1.20	0.49	1.52	2.34	3.40	11.11	7.32	3.34	15.93	4.73	4.13	0.88	56.39
1930	1.92	2.40	6.32	6.03	3.35	20.21	6.48	3.74	3.58	4.94	0.56	3.54	63.07
1931	2.31	1.17	3.93	4.41	3.11	0.59	3.23	7.36	10.68	4.16	0.51	1.11	42.57
1932	1.72	2.13	1.56	1.54	4.69	15.90	4.29	10.59	7.43	2.30	12.44	0.50	65.09
1933	0.64	0.38	5.38	6.90	4.04	9.51	3.85	12.75	11.89	5.30	4.50	0.12	65.26
1934	0.14	1.91	7.10	3.11	5.20	10.15	10.09	12.41	7.44	3.22	0.65	0.82	62.24
1935	0.30	1.32	0.41	5.32	1.08	8.45	6.37	6.54	10.88	5.71	0.36	2.07	48.81
1936	1.91	4.04	2.40	1.96	6.39	18.61	6.09	5.33	5.84	1.65	9.17	1.18	64.57
1937	2.97	1.21	5.87	6.00	3.38	7.74	7.65	7.89	8.35	4.92	2.08	0.38	58.44
1938	0.46	1.14	1.87	0.32	4.52	5.44	8.85	2.65	10.09	2.78	2.66	0.21	40.99
1939	0.11	0.04	0.63	3.74	5.60	11.49	10.30	9.78	5.60	6.59	0.15	1.46	55.49
1940	3.34	2.72	4.20	1.63	3.00	10.18	4.39	8.13	8.11	2.29	0.48	6.47	54.94
1941	4.48	5.55	3.17	6.40	3.37	6.84	11.33	4.22	5.89	8.57	2.13	1.58	63.53
1942	1.81	2.35	5.20	6.02	3.91	24.11	6.41	4.36	7.85	0.57	0.88	2.35	65.82
1943	0.72	0.43	1.59	2.37	5.16	4.94	9.14	7.41	5.18	3.23	2.85	0.18	43.20
1944	0.97	0.03	1.73	4.13	5.57	3.48	6.55	16.38	4.41	8.09	0.45	0.33	52.12
1945	2.10	0.36	0.33	0.90	2.52	8.49	13.05	6.28	13.38	2.81	1.52	1.91	50.65
1946	0.73	0.52	7.06	0.01	6.62	9.70	14.26	9.58	11.42	1.04	7.14	2.86	70.94
1947	0.57	2.17	10.97	1.80	5.34	15.20	14.22	6.53	15.35	7.23	3.94	1.36	84.68
1948	4.63	0.66	0.89	8.22	3.11	3.84	7.43	9.95	19.28	2.23	1.86	0.88	62.98
1949	0.12	0.31	0.37	2.71	2.78	9.29	5.44	11.67	8.95	3.02	1.78	7.09	53.53
1950	0.24	0.80	0.82	2.41	4.61	6.92	6.27	10.00	2.70	12.65	2.43	1.18	51.03
1951	0.20	1.71	0.45	3.58	3.85	10.12	15.30	7.61	5.76	12.77	0.77	0.06	62.18
1952	1.45	4.95	0.92	2.53	3.17	7.58	7.24	6.44	9.73	12.98	0.39	0.37	57.75

Observations were made by the Everglades Experiment Station.

FL0094
MLRA(S): 155, 156A, 156B
REV. AGH, 12-81

SOIL INTERPRETATIONS RECORD

MARGATE SERIES

MOLLIC PSAMMAQUENTS, SILICEOUS, HYPERTHERMIC

THESE ARE NEARLY LEVEL POORLY DRAINED SANDY SOILS THAT ARE UNDERLAIN BY LIMESTONE AT DEPTHS OF 20 TO 40 INCHES. IN A REPRESENTATIVE PROFILE, THE SURFACE LAYER IS VERY DARK GRAY FINE SAND ABOUT 8 INCHES THICK. THE SUBSURFACE LAYER IS LIGHT BROWNISH GRAY FINE SAND ABOUT 8 INCHES THICK. IT IS UNDERLAIN BY ABOUT 16 INCHES OF BROWN FINE SAND. LIMESTONE IS AT A DEPTH OF 32 INCHES. SLOPE GRADIENTS ARE LESS THAN 2 PERCENT.

ESTIMATED SOIL PROPERTIES

DEPTH (IN.)	USDA TEXTURE	UNIFIED	AASHTO	FRACT >3 IN (PCT)	PERCENT OF MATERIAL LESS THAN 3" PASSING SIEVE NO. 4	10	40	200	LIQUID LIMIT	PLASTICITY INDEX
0-8	FS, S	SP, SP-SM	A-3	0	100	100	95-100	2-8	-	NP
8-16	FS, S	SP, SP-SM	A-3	0	100	100	95-100	2-8	-	NP
16-28	FS, S	SP, SP-SM	A-3	0	100	100	95-100	2-8	-	NP
28-32	GR-VAR	GM, GC, SM, SC	A-1-B, A-2-4, A-2-6	35-85	60-80	45-60	40-55	5-35	<40	NP-15
32	UWB									

DEPTH (IN.)	CLAY (PCT)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	EROSION FACTORS T	WIND EROD. GROUP	ORGANIC MATTER (PCT)	CORROSIVITY STEEL	CORROSIVITY CONCRETE
0-8	1-4	1.25-1.45	6.0-20	0.05-0.10	4.5-6.0	-	LOW	.10	3	2	1-4	HIGH	MODERATE
8-16	0-4	1.55-1.65	6.0-20	0.03-0.06	5.1-6.5	-	LOW	.10					
16-28	1-4	1.55-1.65	6.0-20	0.03-0.06	6.1-7.8	-	LOW	.10					
28-32	3-10	1.55-1.65	6.0-20	0.03-0.10	7.4-8.4	-	LOW	.17					
32													

FLOODING FREQUENCY	FLOODING DURATION	FLOODING MONTHS	HIGH WATER TABLE DEPTH (FT)	HIGH WATER TABLE KIND	HIGH WATER TABLE MONTHS	CEMENTED PAN DEPTH (IN)	CEMENTED PAN HARDNESS	BEDROCK DEPTH (IN)	BEDROCK HARDNESS	SUBSIDENCE INIT. (IN)	SUBSIDENCE TOTAL (IN)	HYD GRP	POTENTIAL FROST ACTION
NONE			+1-1.0	APPARENT	JUN-FEB	-		20-40	SOFT	-	-	B/D	-

SANITARY FACILITIES (A)

SEPTIC TANK ABSORPTION FIELDS	SEVERE-DEPTH TO ROCK,PONDING,POOR FILTER
SEWAGE LAGOON AREAS	SEVERE-SEEPAGE,DEPTH TO ROCK,PONDING
SANITARY LANDFILL (TRENCH)	SEVERE-DEPTH TO ROCK,SEEPAGE,PONDING
SANITARY LANDFILL (AREA)	SEVERE-DEPTH TO ROCK,SEEPAGE,PONDING
DAILY COVER FOR LANDFILL	POOR-AREA RECLAIM,SEEPAGE,TOO SANDY

CONSTRUCTION MATERIAL (A)

ROADFILL	POOR-AREA RECLAIM,WETNESS
SAND	IMPROBABLE-THIN LAYER
GRAVEL	IMPROBABLE-TOO SANDY
TOPSOIL	POOR-TOO SANDY,WETNESS

WATER MANAGEMENT (A)

POND RESERVOIR AREA	SEVERE-SEEPAGE
EMBANKMENTS DIKES AND LEVEES	SEVERE-SEEPAGE,PIPING,PONDING
EXCAVATED PONDS AQUIFER FED	SEVERE-DEPTH TO ROCK,CUTBANKS CAVE
DRAINAGE	PONDING,DEPTH TO ROCK
IRRIGATION	PONDING,DROUGHTY,FAST INTAKE
TERRACES AND DIVERSIONS	DEPTH TO ROCK,PONDING,TOO SANDY
GRASSED WATERWAYS	WETNESS,DROUGHTY,DEPTH TO ROCK

BUILDING SITE DEVELOPMENT (A)

SHALLOW EXCAVATIONS	SEVERE-DEPTH TO ROCK,CUTBANKS CAVE,PONDING
DWELLINGS WITHOUT BASEMENTS	SEVERE-PONDING
DWELLINGS WITH BASEMENTS	SEVERE-PONDING
SMALL COMMERCIAL BUILDINGS	SEVERE-PONDING
LOCAL ROADS AND STREETS	SEVERE-PONDING
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-PONDING,DROUGHTY

REGIONAL INTERPRETATIONS

RECREATIONAL DEVELOPMENT (A)

CAMP AREAS	SEVERE-PONDING,TOO SANDY	PLAYGROUNDS	SEVERE-TOO SANDY,PONDING
PICNIC AREAS	SEVERE-PONDING,TOO SANDY	PATHS AND TRAILS	SEVERE-PONDING,TOO SANDY

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS-DETERMINING PHASE	CAPA-BILITY	ORANGES (BOXES)		GRAPEFRUIT (BOXES)		TOMATOES (TONS)		CABBAGE (CRATES)		BAHIAGRASS (AUM)		GRASS-CLOVER (AUM)			
		NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	4W		300		400		12		270		7.5		12.0		

WOODLAND SUITABILITY (B)

CLASS-DETERMINING PHASE	ORD SYM	MANAGEMENT PROBLEMS					POTENTIAL PRODUCTIVITY			TREES TO PLANT
		EROS N HAZARD	EQUIP. LIMIT	SEEDL. MORT'Y	WINDTH HAZARD	PLANT COMPET	COMMON TREES	SITE INDX	PROD CLAS	
							NONE			

WINDBREAKS

CLASS-DETERMIN G PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY (C)

CLASS-DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS							POTENTIAL AS HABITAT FOR:				
	GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
ALL	V. POOR	POOR	POOR	POOR	POOR	-	GOOD	GOOD	POOR	POOR	GOOD	-

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION) (D)

COMMON PLANT NAME	PLANT SYMBOL (NLSPM)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE: ALL				
WAXMYRTLE	MYCE					
PINELAND THREEAWN	ARST5					
ST.-JOHNSWORT	HYPER					
BALDCYPRESS	TADI2					
POTENTIAL PRODUCTION (LBS./AC. DRY WT):						
FAVORABLE YEARS						
NORMAL YEARS						
UNFAVORABLE YEARS						

FOOTNOTES

A RATINGS BASED ON NSH, PART II, SECTION 403.
B BASED ON SOIL SURVEY INTERPRETATIONS FOR WOODLAND PROGRESS REPORT W-16, JAN. 1970
C WILDLIFE RATINGS BASED ON SOILS MEMORANDUM-74, JAN. 1972
D PERCENTAGE COMPOSITION AND POTENTIAL PRODUCTION DATA NOT AVAILABLE.

FL0498

SOIL INTERPRETATIONS RECORD

MLRA(S): 155
REV. VGH, 10-86

OCHOPEE SER:

DEPTH	USDA TEXTURE	UNIFIED	AASHTO	FRAG (PCT)	4	10	40	200	LIQUID LIMIT	PLAS INDEX
0-5	SL, FSL	SM, SM-SC	A-2-4, A-4, A-1-B	0	100	100	40-60	20-40	0-28	NP-7
6-10	SL, FSL	SM, SM-SC	A-2-4, A-4, A-1-B	0	100	100	40-60	20-40	0-28	NP-7
10	UWB	-	-	-	-	-	-	-	-	-

DEPTH (IN.)	CLAY (PCT)	MOIST BULK DENSITY (G/CM3)	PERMEABILITY (IN/HR)	AVAILABLE WATER CAPACITY (IN/IN)	SOIL REACTION (PH)	SALINITY (MMHOS/CM)	SHRINK-SWELL POTENTIAL	EROSION FACTORS K	EROSION FACTORS T	WIND ERO. GROUP	ORGANIC MATTER (PCT)	CORROSIVITY STEEL	CORROSIVITY CONCRETE
0-6	5-15	1.30-1.50	2.0-6.0	0.10-0.22	7.9-9.0	-	LOW	.17	1	3	2-5	HIGH	LOW
6-10	5-15	1.30-1.50	2.0-6.0	0.10-0.22	7.9-9.0	-	LOW	.17					
10													

FLOODING FREQUENCY	FLOODING DURATION	FLOODING MONTHS	HIGH WATER TABLE DEPTH (FT)	HIGH WATER TABLE KIND	HIGH WATER TABLE MONTHS	CEMENTED PAN DEPTH (IN)	CEMENTED PAN HARDNESS	BEDROCK DEPTH (IN)	BEDROCK HARDNESS	SUBSIDENCE INIT. (IN)	SUBSIDENCE TOTAL (IN)	HYD GRP	POTENT. FROST ACTION
NONE			0-1.0	APPARENT	JUN-OCT	-		6-20	HARD	-		B/D	LOW

SANITARY FACILITIES (B)

SEPTIC TANK ABSORPTION FIELDS	SEVERE-DEPTH TO ROCK,WETNESS
SEWAGE LAGOON AREAS	SEVERE-DEPTH TO ROCK,WETNESS
SANITARY LANDFILL (TRENCH)	SEVERE-DEPTH TO ROCK,WETNESS
SANITARY LANDFILL (AREA)	SEVERE-DEPTH TO ROCK,WETNESS
DAILY COVER FOR LANDFILL	POOR-DEPTH TO ROCK,WETNESS

BUILDING SITE DEVELOPMENT (B)

SHALLOW EXCAVATIONS	SEVERE-DEPTH TO ROCK,WETNESS
DWELLINGS WITHOUT BASEMENTS	SEVERE-DEPTH TO ROCK,WETNESS
DWELLINGS WITH BASEMENTS	SEVERE-DEPTH TO ROCK,WETNESS
SMALL COMMERCIAL BUILDINGS	SEVERE-DEPTH TO ROCK,WETNESS
LOCAL ROADS AND STREETS	SEVERE-DEPTH TO ROCK,WETNESS
LAWNS, LANDSCAPING AND GOLF FAIRWAYS	SEVERE-DEPTH TO ROCK,WETNESS

CONSTRUCTION MATERIAL (B)

ROADFILL	SEVERE-DEPTH TO ROCK,WETNESS
SAND	IMPROBABLE-THIN LAYER,EXCESS FINES
GRAVEL	IMPROBABLE-THIN LAYER,EXCESS FINES
TOPSOIL	POOR-DEPTH TO ROCK,WETNESS

WATER MANAGEMENT (B)

POND RESERVOIR AREA	SEVERE-DEPTH TO ROCK
EMBANKMENTS DIKES AND LEVEES	SEVERE-WETNESS
EXCAVATED PONDS AQUIFER FED	SEVERE-DEPTH TO ROCK
DRAINAGE	DEPTH TO ROCK
IRRIGATION	WETNESS,SOIL BLOWING,DEPTH TO ROCK
TERRACES AND DIVERSIONS	DEPTH TO ROCK,WETNESS
GRASSED WATERWAYS	WETNESS,DEPTH TO ROCK

REGIONAL INTERPRETATIONS

RECREATIONAL DEVELOPMENT (B)

CAMP AREAS	SEVERE-WETNESS,DEPTH TO ROCK	PLAYGROUNDS	SEVERE-WETNESS,DEPTH TO ROCK
PICNIC AREAS	SEVERE-WETNESS,DEPTH TO ROCK	PATHS AND TRAILS	SEVERE-WETNESS

CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE (HIGH LEVEL MANAGEMENT)

CLASS-DETERMINING PHASE	CAPABILITY	TOMATOES (TONS)		POTATOES, IRISH (CWT)		BEANS, SNAP (BU)		BAHIAGRASS (AUM)		GRASS-CLOVER (AUM)					
	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.	NIRR	IRR.
ALL	4W		8		200		200		6		8					

WOODLAND SUITABILITY (C)

CLASS-DETERMINING PHASE	ORDI SYMI	MANAGEMENT PROBLEMS EROS HAZARD	EQUIP. LIMIT	SEEDL. MORT'Y	WINDTHI HAZARD	PLANT COMPET	POTENTIAL PRODUCTIVITY COMMON TREES	SITE INDX	PROD CLAS	TREES TO PLANT
ALL	3W	SLIGHT	MODER.	MODER.	SEVERE	SEVERE	S FLORIDA SLASH PINE	35	3	S FLORIDA SLASH PINE

WINDBREAKS

CLASS-DETERMING PHASE	SPECIES	HT	SPECIES	HT	SPECIES	HT	SPECIES	HT
	NONE							

WILDLIFE HABITAT SUITABILITY

CLASS-DETERMINING PHASE	POTENTIAL FOR HABITAT ELEMENTS GRAIN & SEED	GRASS & LEGUME	WILD HERB.	HARDWD TREES	CONIFER PLANTS	SHRUBS	WETLAND PLANTS	SHALLOW WATER	OPENLD WILDLF	POTENTIAL AS HABITAT FOR: WOODLD WILDLF	WETLAND WILDLF	RANGELD WILDLF
ALL	POOR	FAIR	FAIR	POOR	POOR	-	FAIR	GOOD	POOR	POOR	FAIR	POOR

POTENTIAL NATIVE PLANT COMMUNITY (RANGELAND OR FOREST UNDERSTORY VEGETATION)

COMMON PLANT NAME	PLANT SYMBOL (NLSPY)	PERCENTAGE COMPOSITION (DRY WEIGHT) BY CLASS DETERMINING PHASE
PINELAND THREEAWN	ARST5	
WIREGRASS	PAHE2	
ARROWHEAD	SAGIT	
RUSH	JUNCU	
SAND CORDGRASS	SPBA	
JAMAICA SAWGRASS	CLJA	

POTENTIAL PRODUCTION (LBS./AC. DRY WT):	
FAVORABLE YEARS	
NORMAL YEARS	
UNFAVORABLE YEARS	

FOOTNOTES

A ESTIMATED SOIL PROPERTIES BASED ON TEST DATA FROM 1 PEDON SAMPLED HENDRY COUNTY FLORIDA.

B RATINGS BASED ON NSH PART 603, JULY 1983.

C RATINGS BASED ON NFH.

NRCS Accessibility Statement

This document is not accessible by screen-reader software. The Natural Resources Conservation Service (NRCS) is committed to making its information accessible to all of its customers and employees. If you are experiencing accessibility issues and need assistance, please contact our Helpdesk by phone at 1-800-457-3642 or by e-mail at ServiceDesk-FTC@ftc.usda.gov. For assistance with publications that include maps, graphs, or similar forms of information, you may also wish to contact our State or local office. You can locate the correct office and phone number at http://offices.sc.egov.usda.gov/locator/app.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

SOIL SURVEY MAP OF THE MICCOSUKEE INDIAN ALLIGATOR ALLEY RESERVATION

BROWARD COUNTY, FLORIDA

LEGEND

Bc	Boca fine sand
Ch	Chobee muck, limestone substratum, depressional
Co	Copeland mucky fine sand, depressional
Ga	Gator muck, limestone substratum, depressional
Ha	Hallandale fine sand
Hs	Hallandale fine sand, slough
Ju	Jupiter fine sand
La	Lauderhill muck
Ma	Margate fine sand

LOCATION MAP

Source: Original draft by State Soil Survey Staff.

USDA-SCS-NATIONAL CARTOGRAPHIC CENTER, FT. WORTH, TX.-1987

MARCH 1987 4-R-40088

ALLIGATOR ALLEY

L-28

COLLIER COUNTY

L-28 INTERCEPTOR CANAL

LEGEND

Ch Chobee muck, limestone substratum, depressional

Co Copeland mucky fine sand, depressional

Ga Gator muck, limestone substratum, depressional

Ha Hallandale fine sand

Hs Hallandale fine sand, slough

Ju Jupiter fine sand

Oc Ochopee loamy fine sand